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THEESIS

AEROTHERMODYNAMIC ANALYSIS OF A
COANDA/REFRACTION JET ENGINE
TEST FACILITY

by

André Maraoui

December 1988

Thesis Advisor

David Salinas

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Aerothermodynamic Analysis of a Coanda Refraction Jet Engine
Test Facility

by

Andre Maraoui
Lieutenant, United States Navy
B.S., United States Naval Academy, 1983

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December 1988

Author:

Andre' Maraoui
Andre' Maraoui

Approved by:

David Salinas
David Salinas, Thesis Advisor

Anthony J. Healy
Anthony J. Healy, Chairman,
Department of Mechanical Engineering

Gordon E. Schacher
Gordon E. Schacher,
Dean of Science and Engineering

ABSTRACT

A computer model of the Coanda Refraction Jet Engine Test Cell facility was developed using the PHOENICS computer code. The PHOENICS code was utilized to determine the steady state aerothermal characteristics of the test cell during the testing of an F404 gas turbine engine with afterburner in operation. Computer generated aerothermodynamic field variables of pressure, velocity and temperature parameters were compared to operational field test data. Observations regarding compared results as well as system behavior are presented. Additionally, recommendations of the applications of PHOENICS to future modeling projects are made.



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I. INTRODUCTION

The testing of new and/or overhauled gas turbine engines plays a vital and integral role in the preparation of these powerplants for operational use. To safely and effectively monitor such testing, test cell and hush house facilities are utilized. A detailed description of a test cell facility, which is the subject of this thesis, is provided in chapter two. A description of a hush house facility is discussed in the following.

There are five categories of facilities used for engine testing today. All involve some form of holding device for the engine or aircraft. These facilities must accommodate various sensors and instruments and be designed to test a variety of engine types such as turbojets, turbosfans, turboprops, as well as ship gas turbine engines. These five facility types include: [Ref. 1: p. 2]

1. The Run-Up Pad: The simplest of the five facilities, where a tied down aircraft is the engine holding device. Testing is conducted in remote open air locations.
2. Sound Suppressors: These are equipment packages used on Run-UP pads. They collect and reduce inlet and exhaust noise.
3. Open Test Stand: The Open Test Stand or (OTS) is an outdoor stand that secures the engine in place while being tested. Portable instrumentation must be used.
4. Hush House: The Hush House is a totally enclosed structure which allows for continuous testing. A Hush House facility includes an inlet bay area, where the engine is prepared for testing, an ejector or augmentor tube, where the exhaust gases are discharged into, the exhaust stack, where exhaust gases are emitted into the atmosphere, and various primary and secondary air inlets, which provide suction air for the engine as well as cooling air for the exhaust. This facility accommodates the testing of an engine inside the airframe of an airplane.
5. Fully Enclosed Test Cell: A Fully Enclosed Test Cell facility is similar in structure to a Hush House, with one major difference. Engines are tested on a test stand vice being inside the airframe of an airplane. One example of a Fully Enclosed Test Cell facility is the Altitude Test Cell. The altitude test cell simulates various altitude changes by providing air to the engine at proper stagnation pressures and temperatures for a specified altitude.

Today, there are a total of 76 enclosed engine test facilities in the U.S. Navy. Only 60 are fully operational and 51 of these facilities are at least 22 years old. With the advent of new and more powerful engines that provide higher thrust and temperature outputs, present facilities' compliance with federal, state, and local noise and pollution standards becomes more difficult. Immediate problem areas include: structural degradation, safety, maintenance, and design criteria. [Ref. 1: p. 6]

- Structural Degradation: The high gas temperatures have caused cracking and spalling of test cell concrete walls and silencing baffles, leaving exposed reinforcing steel to corrode and fail.
- Safety: Safety problems such as flying debris of spalled material, spilled fuel, foreign debris ingestion, as well as compressor stalls and lack of visual observation of all sides of the engines or aircraft are of great concern.
- Maintenance: Existing concrete repair technology is inadequate for test cell facilities. The lack of standardized repair and maintenance manuals increases cost and reduces efficiency.
- Design Criteria: The lack of any standardized designs for test cell facilities has reduced cost effectiveness.

The present condition of todays test facilities continually increase the risk of personnel being subjected to hearing and respiratory ailments. In 1981 the Navy Environmental Health Center cited a total claims of \$114 million against the government with an annual claim growth of 9% [Ref. 1: p. 3].

The Department of the Navy is currently undergoing a comprehensive program of research and development to provide standardized facilities to test gas turbine engines. This program will integrate the latest technological advances with emphasis on environmental concerns. Specific objectives include: [Ref. 1: p. 1]

- Establish a range of construction quality levels to optimize facility design life and life cycle costs for various classes of facilities.
- Assure the complete development of facility configurations based on optimum operational, testing, environmental and safety criteria for current and future inventory of aircraft and engines.
- Ensure reliable operation and maintenance throughout the facility life cycle through the development of integrated logistic support plans and specifications.

Designs of future facilities must incorporate the effect of turbulence, supersonic velocities, and pressure and temperature gradients on system performance.

The Naval Civil Engineering Laboratory (NCEL) at Port Hueneme California, is currently using computer modeling to obtain better understanding of test cell behavior in order to assist in future design of test cells. The PHOENICS code (discussed in chapter three) is being used to analyze existing facilities. The results from the numerical model is then compared with actual field test data. The Naval Postgraduate School has been modeling several different test cell facilities using the PHOENICS code. By comparing and validating computer simulation results with actual field data, the ability of

PHOENICS to design future test facilities can be assessed.

The purposes of this thesis include:

- The modeling of the Coanda Refraction #2 test cell using the PHOENICS code for the aerothermodynamic characteristics of gas pressure, velocity, temperature and turbulence.
- Comparing the computer generated results with actual test data results.
- Providing recommendations on the use of PHOENICS in future modeling projects.

II. DESCRIPTION OF THE COANDA TEST CELL

A. MAIN COMPONENTS

The Coanda Refraction noise suppression system is the test cell under investigation in this thesis. There are two of these test cells (cell #1, and cell #2) located in Lemoore Naval Air Station, California. A variety of engines are tested in this test cell facility. The engine that will be used in the computer analysis of the Coanda Refraction #2 test cell is the GE F404 gas turbine engine, the power plant for the F/A-18 fighter aircraft.

The Coanda test cell (see Figure 1) is a fully enclosed structure. Its reinforced concrete walls are .457 meters (1.5 feet) thick. The structure is 30 meters (98 feet) in length and 8 meters (26 feet) in width. The height of the exhaust stack is 17.2 meters (56.4 feet) (see Figure 2).

The Coanda test cell is one of the more geometrically complex test cells found today. It is composed of various primary and secondary air intakes as well as a Coanda Refraction system (see **Coanda Effect** in chapter two for a description of the Coanda Refraction system). Figure 3 illustrates the overall flow direction of air and gases through the facility. The main components of this test cell include: the primary intake, the forward secondary intake, attenuators, ejectors, the coanda surface, the after secondary intake and exhaust (see Figure 2). The function of each part follows: [Ref. 2: p. 2]

- Primary Intake: Provides the engine airflow.
- Forward Secondary Intake: Provides airflow for the cooling and mixing of jet exhaust.
- Attenuators: The attenuators suppress noise in the primary and secondary intake.
- Ejectors: The ejectors or augmentors provide a region of mixing of the exhaust gases with cooling air.
- Coanda Surface: A curved surface directly downstream of the ejectors. The curve is logarithmic instead of a constant radius to allow for better cooling and air mixing.
- After Secondary Intake: Its purpose is identical to the forward secondary intake. It permits the flow of air into the structure for mixing and cooling. The inlets are lined with acoustic panels to reduce noise propagation.
- Exhaust: The exhaust stack allows exhaust gases to exit the test cell into the atmosphere. To reduce noise, the concrete stack is layered by acoustic absorber and multilayered perforated face shields.

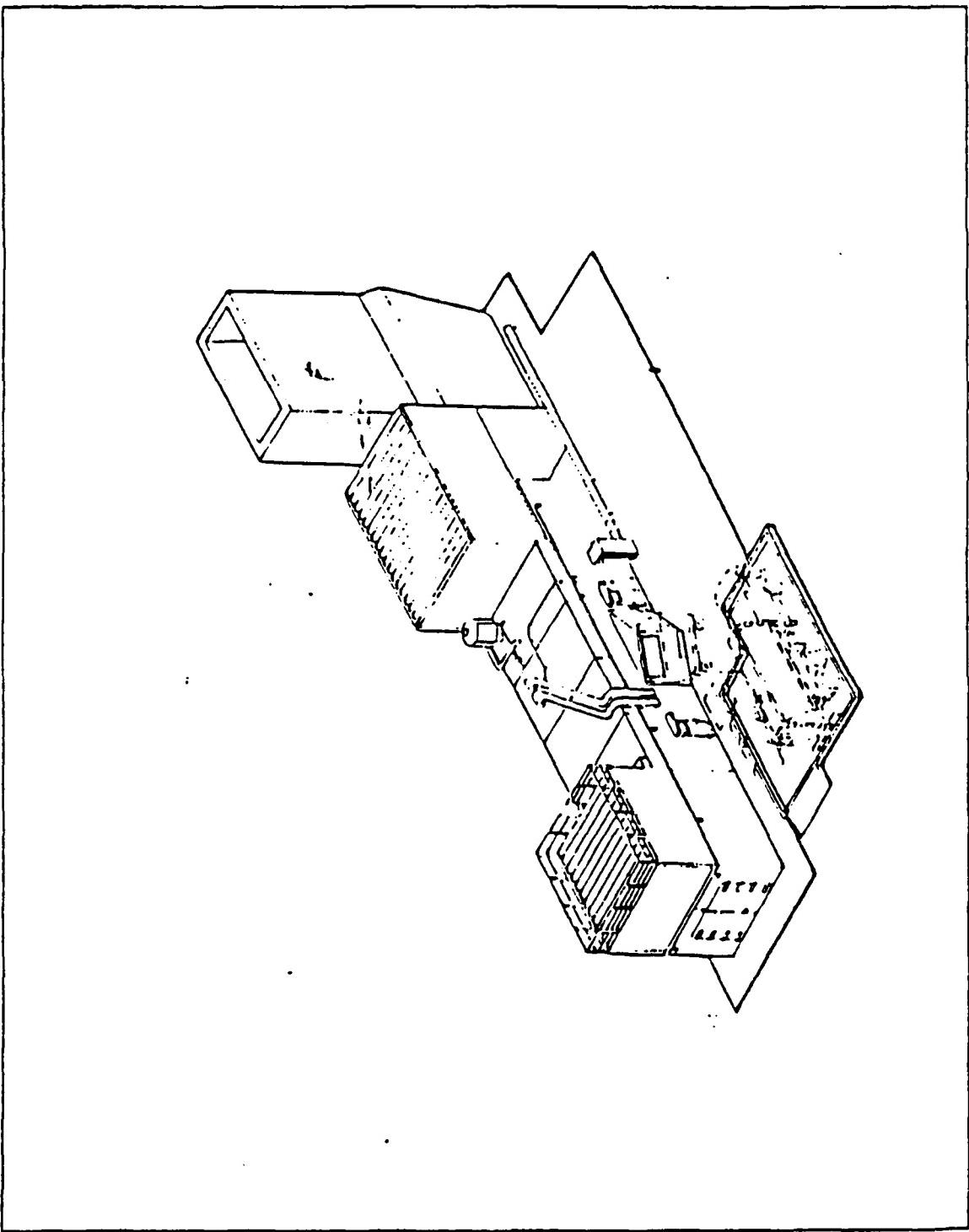


Figure 1. Coanda/Refraction test cell

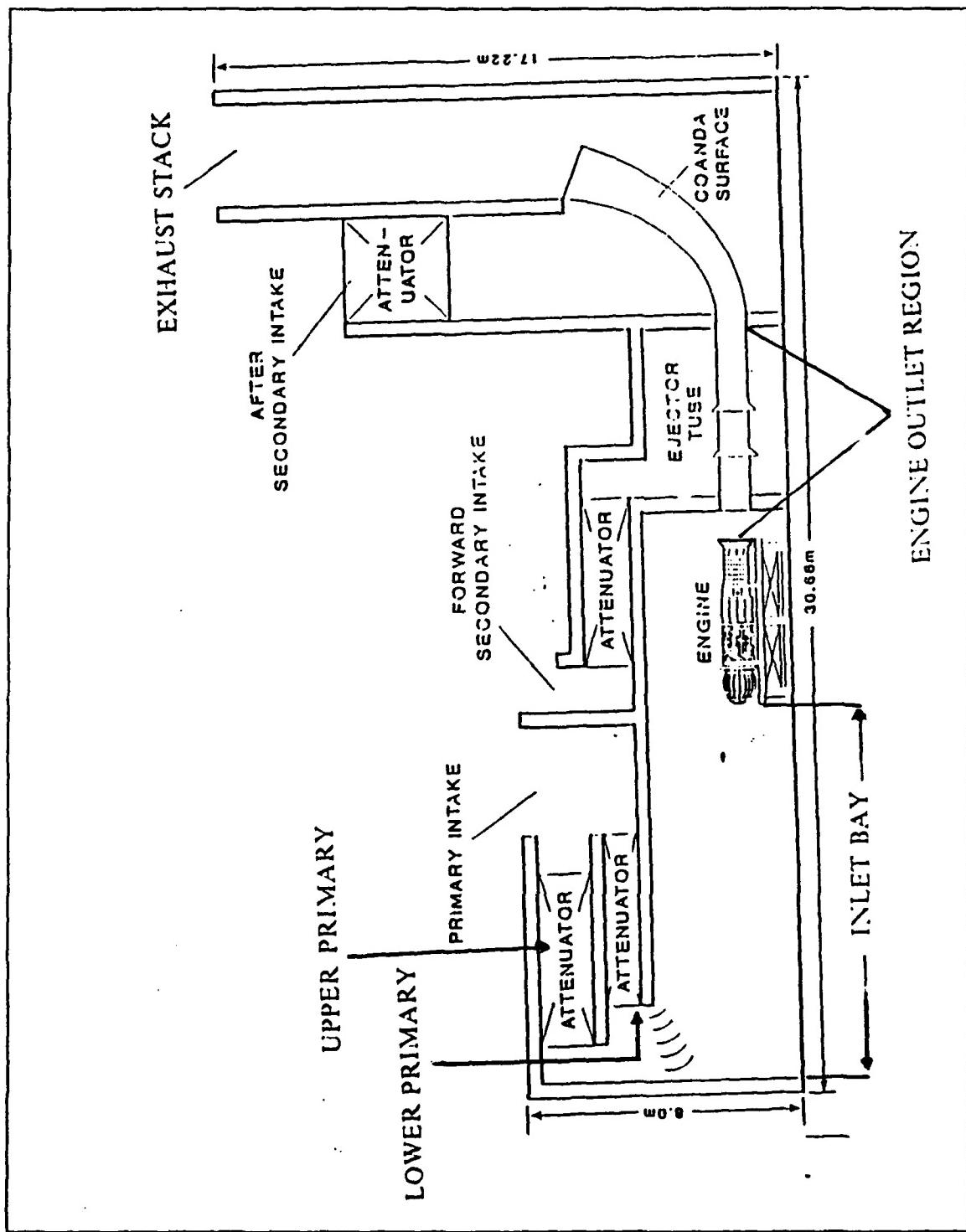


Figure 2. Coanda/Refraction Main Components

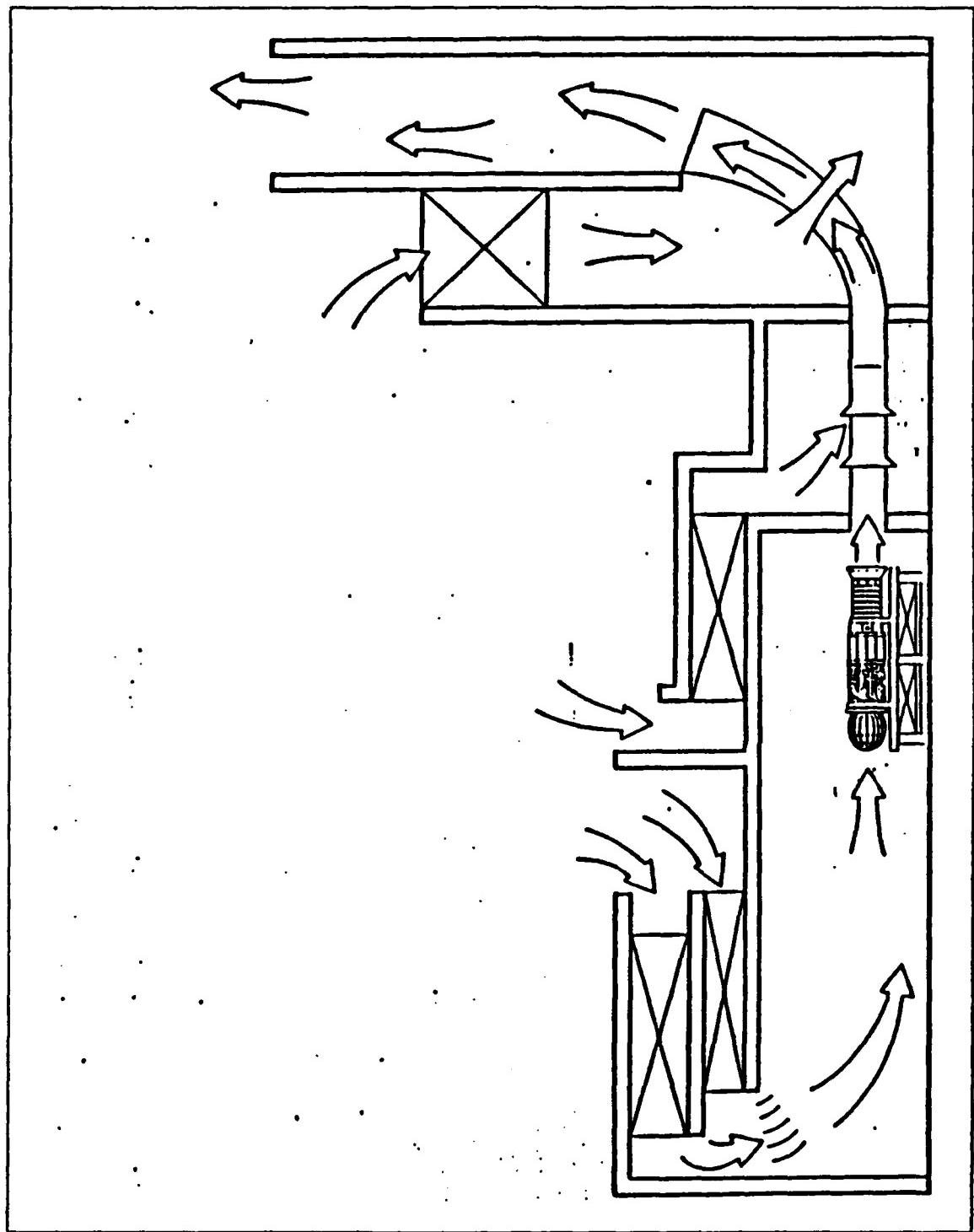


Figure 3. Coanda/Refraction #2 test cell air and gas flow

B. TESTING PROCEDURE

The Coanda Refraction #2 test cell is primarily used for the testing of overhauled gas turbine engines. Upon the completion of its overhaul, the engine is brought to the test facility where it is subjected to a performance test that lasts approximately two hours.

When the engine is ready for testing, it is rolled in through the large double doors located in the inlet bay. The engine is then mounted on the test cradle which stands 1.12 meters (3.70 feet) off the floor. Once the engine is secured and aligned with the centerline of the ejector tube, various monitoring gages for temperature, fuel flow, thrust and pressure are connected. After closing the double doors and ensuring fire fighting equipment is activated in the test facility, testing begins.

The monitoring of the test is conducted by personnel in a control booth located at the side of the test room. The booth is an acoustically insulated compartment containing all monitoring and observation equipment.

The frequency of use of the Coanda facility will vary upon the number of engines ready for testing. Generally the facility is used daily.

C. THE COANDA EFFECT

The Coanda test cell provides a new concept in test cell design. The test cell facility was updated in 1983. The Naval Facilities Engineering Command (NAVFAC) updated this facility with a modified "C" cell retrofit. The retrofit included the replacement of the original exhaust system with the Coanda Refraction noise suppression system and the addition of a new set of acoustic baffles in the secondary air intake. The addition of the after secondary intake was also added to provide additional cooling air (see Figure 2). A diagram of the Coanda surface and its support assembly is given in Figure 4. [Ref. 3: p. 2]

The name "Coanda/Refraction" is based upon the "Coanda Effect". Simply stated, the "Coanda Effect" is the ability of a high energy jet flow (exhaust gases) to attach to a curved surface. Consider a fluid jet approaching a curved surface (see Figure 5). The emerging jet entrains flow along the curved surface, creating a low pressure area adjacent to the jet. This low pressure area (see Figure 6) deflects the jet flow toward the curved surface, thereby creating flow along the curved surface. It is important to note that the higher the energy of the incoming jet, the greater the low pressure area created and thus the greater the tendency of flow to attach to the curved surface.

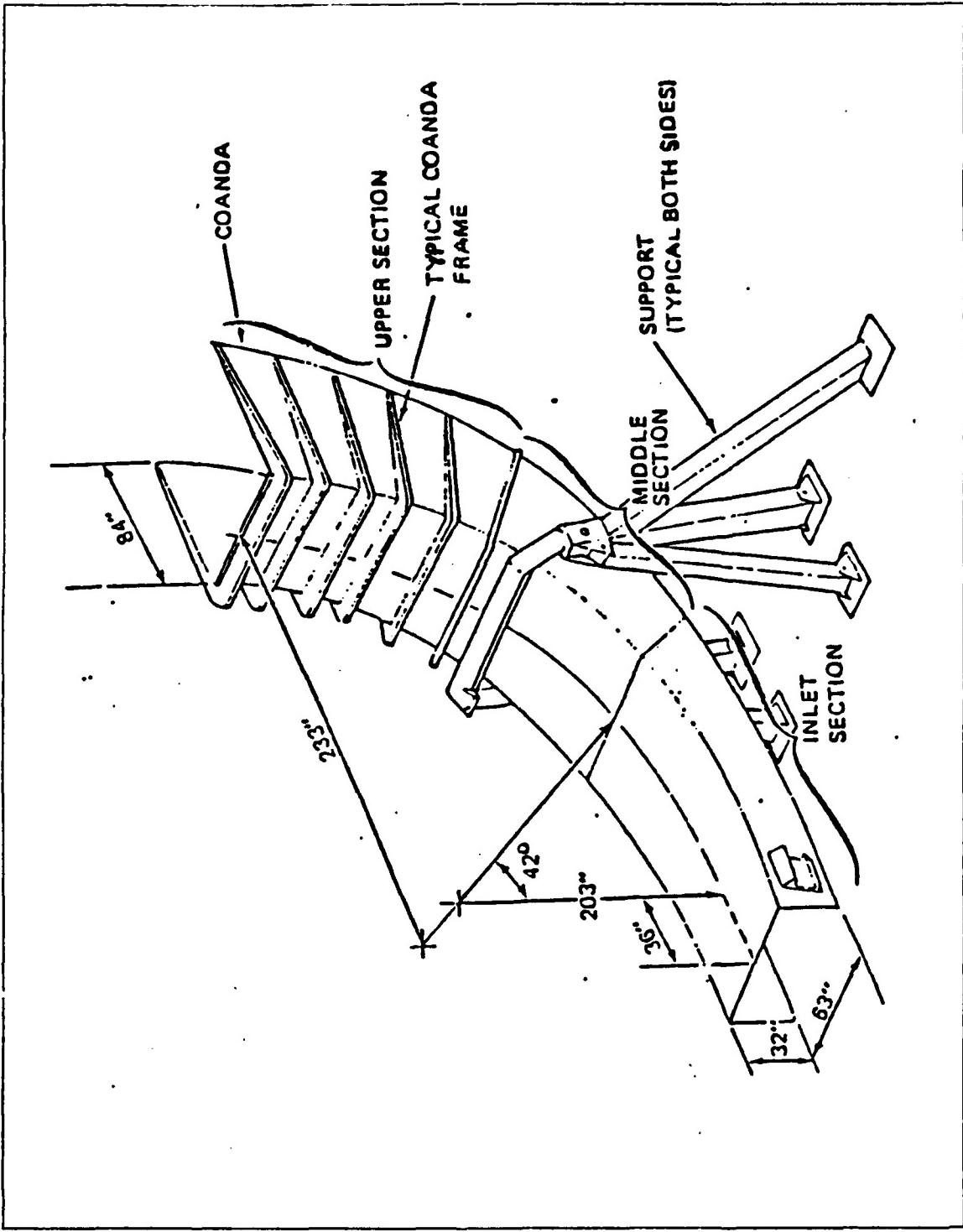


Figure 4. Coanda surface

There are two advantages in using the Coanda Refraction system. With the tendency of flow to bend towards the Coanda surface, the exhaust gases are maintained at a higher temperature for a longer time period. This allows many of the exhaust pollutants to be burned off, resulting in lower toxic pollutants emitted into the atmosphere.

Another advantage refers to the fact that in high energy jet flow, noise is refracted out of the main flow towards the entrained flow. The refraction of noise towards the Coanda Surface assures that less noise will be emitted into the atmosphere.

[Ref. 4: p. 3]

D. COANDA/REFRACTION TEST CELL STATUS

An on site inspection of the Coanda Refraction test cell facility in June 88 resulted in several observations. Only test cell #2 was inspected due to repairs being conducted in test cell #1.

Cell #2 showed moderate spalling and cracking of the concrete walls. The greatest spalling was on the aft (rear) end wall of the exhaust stack. The Coanda and ejector steel structure had surprisingly very minor erosion. There were several sheared bolts throughout the exhaust section of the test cell. Operating and maintenance personnel indicated that the intense heat and vibration tended to loosen and corrode bolts and nuts. Bolts were continuously being replaced and tightened on a regular interval.

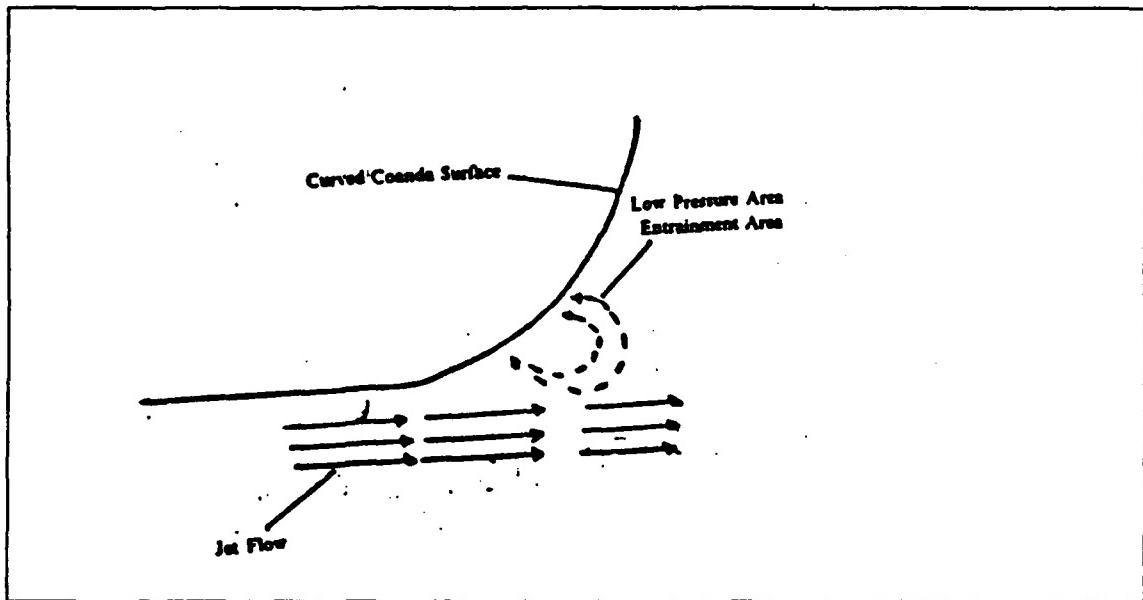


Figure 5. Coanda Effect: Entrainment and low pressure area

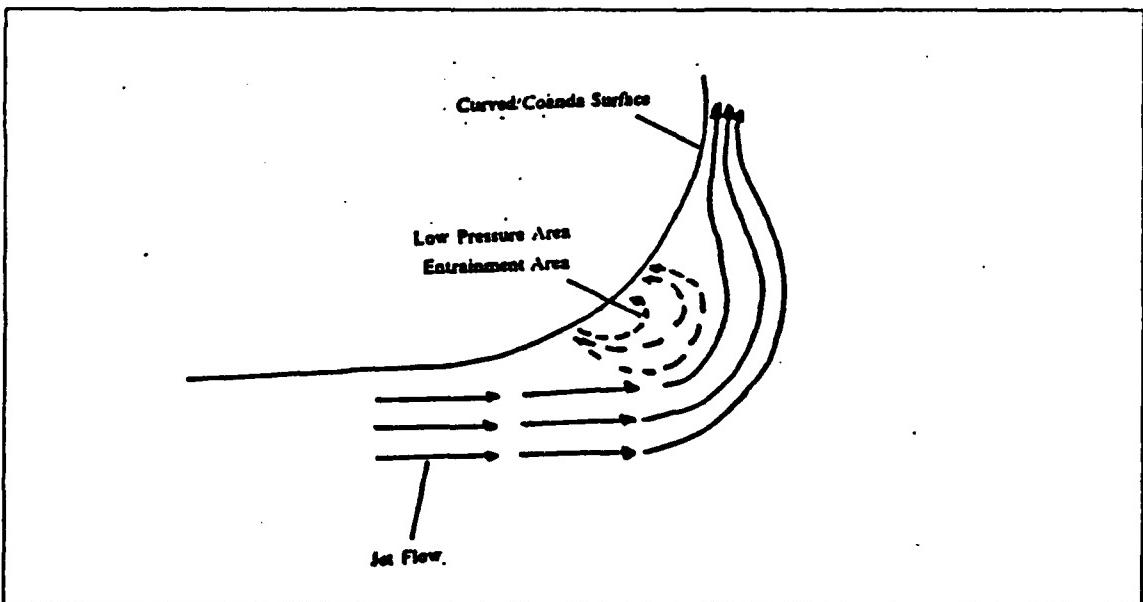


Figure 6. Coanda Effect: Attachment of flow to a curved surface

III. NUMERICAL MODELING USING PHOENICS

A. FIELD EQUATIONS

The numerical modeling of the Coanda Refraction #2 test cell facility is based upon the conservation laws of energy, mass, momentum, mass of chemical species and turbulence. Each of these conservation laws is represented in a partial differential equation form.

The partial differential equations for these conservation laws are non linear and coupled. All of the conservation laws may be put into the single generalized differential equation: [Ref. 5: p.15]

$$\frac{\delta}{\delta t} (r\rho\Psi) + \text{div}(rV\rho\Psi - r\Gamma_\Psi \text{grad}\Psi) = rS_\Psi$$

where:

r = phase volume fraction

ρ = density

V = velocity vector

Ψ = dependent variable for the conservation law in question.

Γ_Ψ = exchange coefficient (laminar or turbulent) for the conservation law.

S_Ψ = source or sink term

If for example, the generalized differential equation was representing the conservation law of energy then the parameters of the generalized differential equation form would represent the following:

$\Psi = h$ (the specific enthalpy)

$\Gamma_\Psi = \lambda_{eff}/c_p$ (the effective thermal conductivity divided by the constant pressure specific heat)

S_Ψ = interphase heat transfer

B. DISCRETIZATION

The conservation differential equations must be reduced to linear algebraic equations. The reduction process, called the discretization of the field equations, is usually accomplished by a finite difference or a finite element method. The PHOENICS code used for this research effort discretizes the field equations by the control volume

scheme, which has features of both the finite difference and the finite element method. The discretization divides the continuous body into many cells. The dependent values for each cell are then solved for. The solution process is an iterative method in which each iteration is defined as a sweep. The complexity of a problem is illustrated in the number of "Degrees of Freedom" (DOF) variables required to be solved. The total number of DOF variables is equal to seven (the number of dependent variables) times the total number of cells (9729) in the grid model. For example, the Coanda Refraction model has 65,142 values calculated for each sweep. The sizes and number of grid cells plays a vital role in achieving a solution to a problem. Because a finer grid has more cells than a coarser grid, the number of variables for the finer grid is greater than the number of variables for the coarser grid. That is, there are more algebraic equations to solve. On the other hand, generally fewer iterations are needed for convergence of the finer grid. Nevertheless, computational effort for a finer grid can be expected to be greater than for a coarser grid, but the finer grid produces a more accurate solution.

The discretization of the general differential equation results in the following linearized algebraic equations: [Ref. 6: p.2.4]

$$\Psi_p = \frac{A_E \Psi_E + A_H \Psi_W + A_N \Psi_N + A_S \Psi_S + A_H \Psi_H + A_L \Psi_L + A_T \Psi_T + S}{A_E + A_W + A_N + A_S + A_H + A_H + A_L + A_T + A_p}$$

where

Ψ_p is the value of the dependent variable in a cell. The subscript 'p' denotes the grid point in question.

L,H,W,E,N,S are subscripts that denote the Low, High, West, East, North, South faces of the cell around point p. (see Figure 7).

Ψ_t is the value of the Ψ , at the previous iteration.

S, A, express the influence of sources

A_i denotes the influence coefficients arising from the discretization process, where the subscript "i" denotes a place or iteration.

C. PHOENICS

1. General description

PHOENICS, which stands for Parabolic Hyperbolic or Elliptic Numerical Integration Code Series, is designed to simulate flow and heat transfer processes which are: [Ref. 6: p.1.2]

- One, two or three dimensional

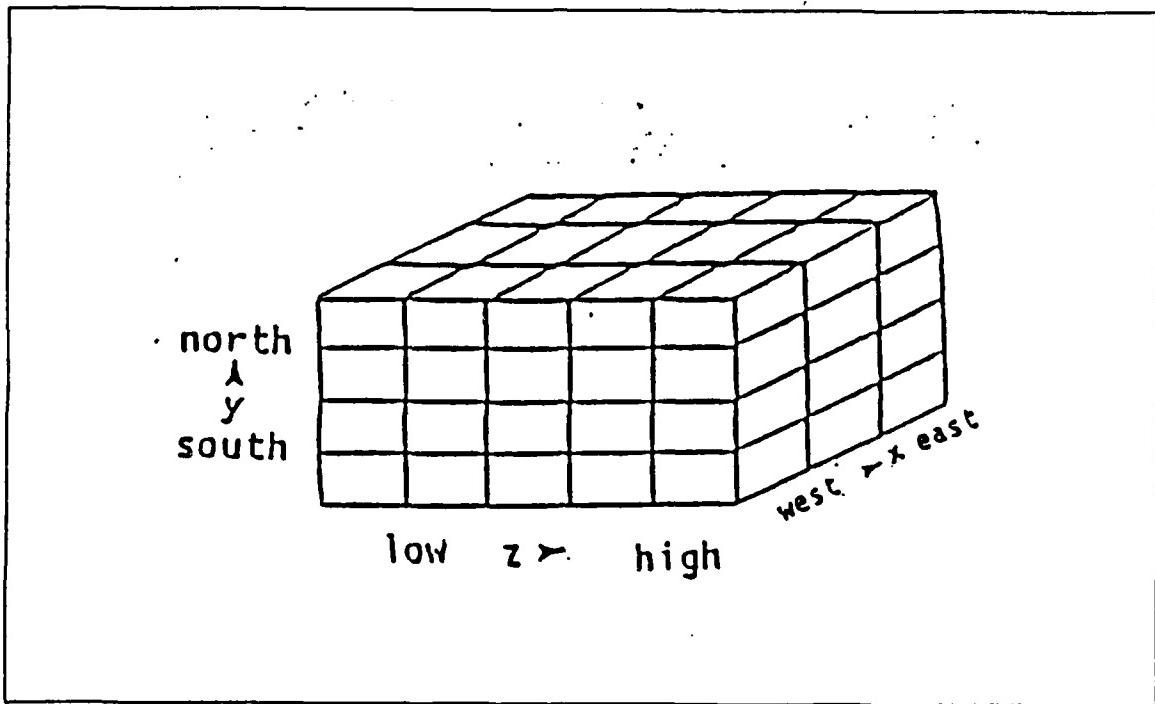


Figure 7. Respective directions at a cell grid point

- Steady or transient
- Single phase, two phase, or multi phase
- Laminar or turbulent
- Subsonic or supersonic
- Chemically reacting or inert

2. Structure of PHOENICS

The PHOENICS code is composed of three major components: EARTH, SATELLITE, and the GROUND STATION. SATELLITE formulates the system to be analyzed, EARTH solves the system equations and the GROUND STATION provides update of nonlinear parameters during the solution process. A description of each of these components follows: (see Figure 8). [Ref. 6: p.1.3]

a. EARTH

The EARTH program contains the built in computational procedures required for PHOENICS. It contains the main flow simulating software which represents the laws of physics as applied to space and time. Modification of EARTH by a user is prevented during the solution process through the GROUND STATION.

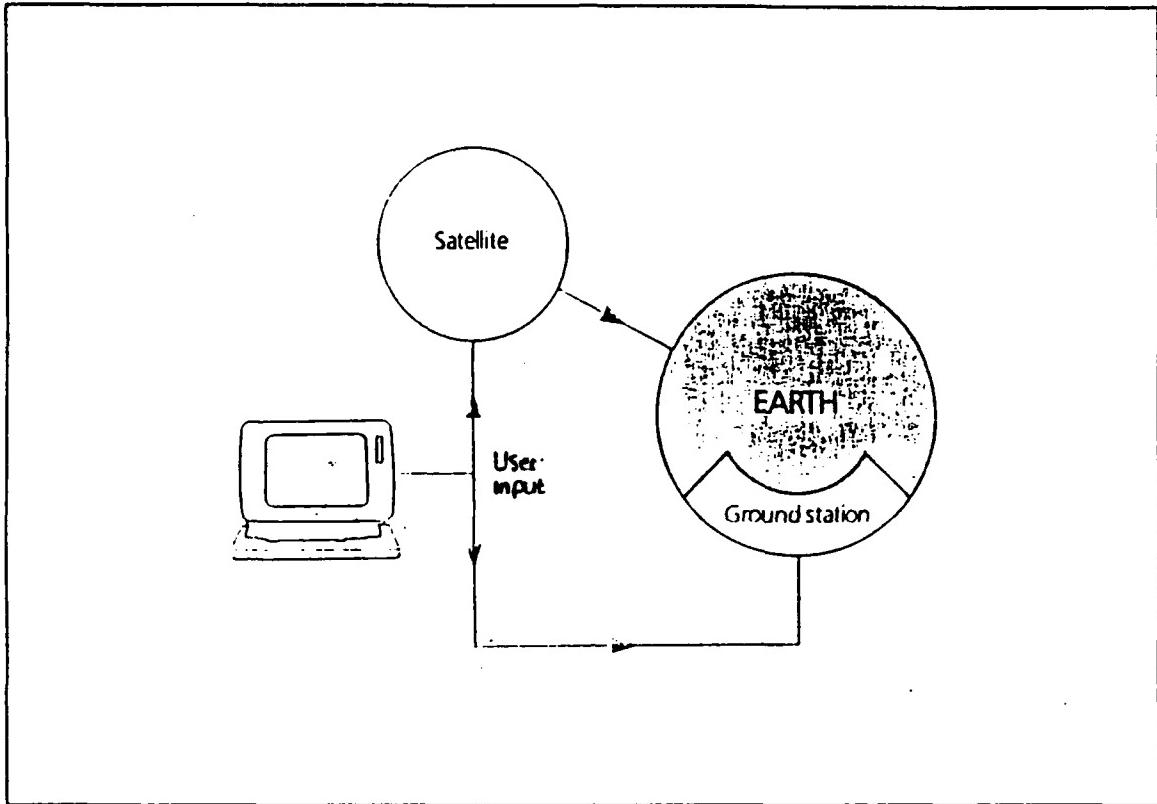


Figure 8. Structure of PHOENICS

By default, EARTH is arranged to solve for up to 25 dependent variables. The variables used in the analysis of the Coanda/Refraction #2 test cell include: pressure, all three dimensional velocity components, enthalpy, turbulent kinetic energy, and turbulent kinetic energy dissipation rate [Ref. 6: p.2.2].

b. GROUND STATION

The GROUND STATION (see Figure 8) is a set of subroutines attached to EARTH to accomodate changes due to the solution process. A user can access GROUND STATION subroutines to insert coding or make modifications to EARTH. Such modifications include: [Ref. 6: p.3.26]

- Modify or replace PHOENICS turbulence models by one of own choosing.
- Provide special fluid property formulae.
- Introduce complex boundary conditions, resistance laws and heat correlation formulas.

c. SATELLITE

The SATELLITE program acts as a preprocessor to EARTH. Its function is to create a data file containing the problem statement to be read by EARTH.

The interaction between SATELLITE and EARTH is unidirectional. Information is transmitted from SATELLITE to EARTH. If any problem parameters are functions of the solution, then a GROUND STATION program must be written to modify EARTH.

There are three methods of data input available on SATELLITE. They include the interactive mode, the quick input mode and the Fortran input mode: [Ref. 6: p.3.6].

- In the interactive mode, data is supplied by the user interactively. This method is designed to assist in learning the system. If the user makes a typing or logic mistake, he is informed immediately before proceeding.
- The quick input mode provides the problem data input directly as a compact data file.
- In the Fortran input mode, the user can access and modify a Fortran subroutine named "SATLIT".

For the modeling of the Coanda/Refraction #2 test cell, a Q1 file was created in SATELLITE. The Q1 file is arranged into 24 group data structures in which all aspects of the problem such as physical dimensions, boundary initial conditions, porosity, known values of temperature, velocity, and pressure are defined. Appendix A provides the Q1 file used in the modeling of the Coanda/Refraction #2 test cell facility. Since the Coanda test cell is symmetrical, only half the test cell (engine, augmentor tube, Coanda surface) were modeled in the Q1 file. Note the Q1 file is not a fortran program. [Ref. 6: p.3.6]

The ordering of the 24 group data structure used in the modeling of Coanda/Refraction #2 test cell facility conformed to the recommended sequence provided in the PHOENICS User's Manual (reference six). This sequence provides a well thought out flow simulation of the problem description.

The following is a description of some of the groups of the 24 group data structure used in the Coanda/Refraction test cell (see Appendix A). Not all 24 groups were needed to model the Coanda/Refraction test cell facility.

(1) *Group 1-Run identifiers and other preliminaries.* Group 1 provides the title information of the Q1 file and identifies all parameters as real or integer quantities

(2) *Group 2-Time Dependence.* Group 2 contains time dependence options (i.e. steady state or transient). In the Coanda Refraction test cell a steady state time dependence is used.

(3) *Groups 3-5-X, Y, Z grid specification.* Groups 3-5 provide the grid specifications in the X, Y, and Z direction. The Cartesian Coordinate system was chosen due to its simplicity and ease of modeling characteristics. The number and size of grid cells used plays an important role in obtaining a solution to the problem.

A trial and error procedure was used to obtain the number and size of grid cells used. The method used for selecting a grid model was to achieve the grid with fewest cells which produced reasonable flow and temperature fields. The number of grid cells used in the Coanda Refraction # 2 test cell include:

X direction "NX": 9 grid cells (see Figure 9)

Y direction "NY": 23 grid cells (see Figure 10)

Z direction "NZ": 47 grid cells (see Figure 10)

In anticipated areas of high turbulence, large temperature gradients, and large velocity gradients, a fine grid was modeled for better results. The particular areas of interest include the engine outlet, inlet to the augmentor tube, the after secondary inlet and the exhaust stack (see Figure 2 on page 6).

(4) *Group 6-Body fitting and other grid distortions.* Group 6 provides the use of the body fitted coordinate system (BFC). Because of time limitations for this research activity, BFC was not used in the modeling of the Coanda Refraction test cell.

(5) *Group 7-Variables (including porosities) named, stored & solved.* Group 7 provides various commands which determine which variables are to be stored and or solved for. Group 7 also provides various solution schemes which include the slab wise, the whole field and the point to point iteration . A description of these solution options is provided in the PHOENICS User's Manual. The important point is that all these schemes will lead to the same converged solution, however differences will lie in the storage and computer time needed. By using the SOLUTN command for example, a user can indicate the solution method desired as well as what dependent variables to solve for.

(6) *Group 9-Physical properties of the medium.* Group 9 provides all boundary condition parameters around the test cell, the fluid properties of the medium

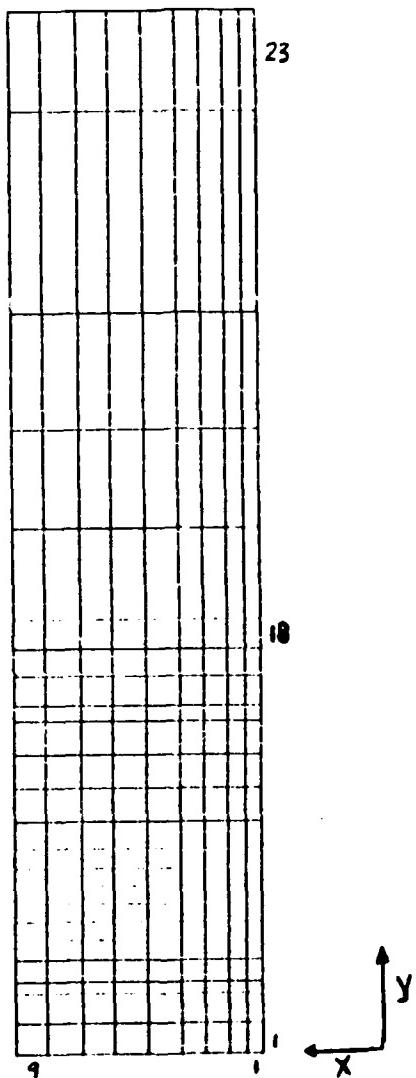


Figure 9. Coanda/Refraction test cell in X Y plane

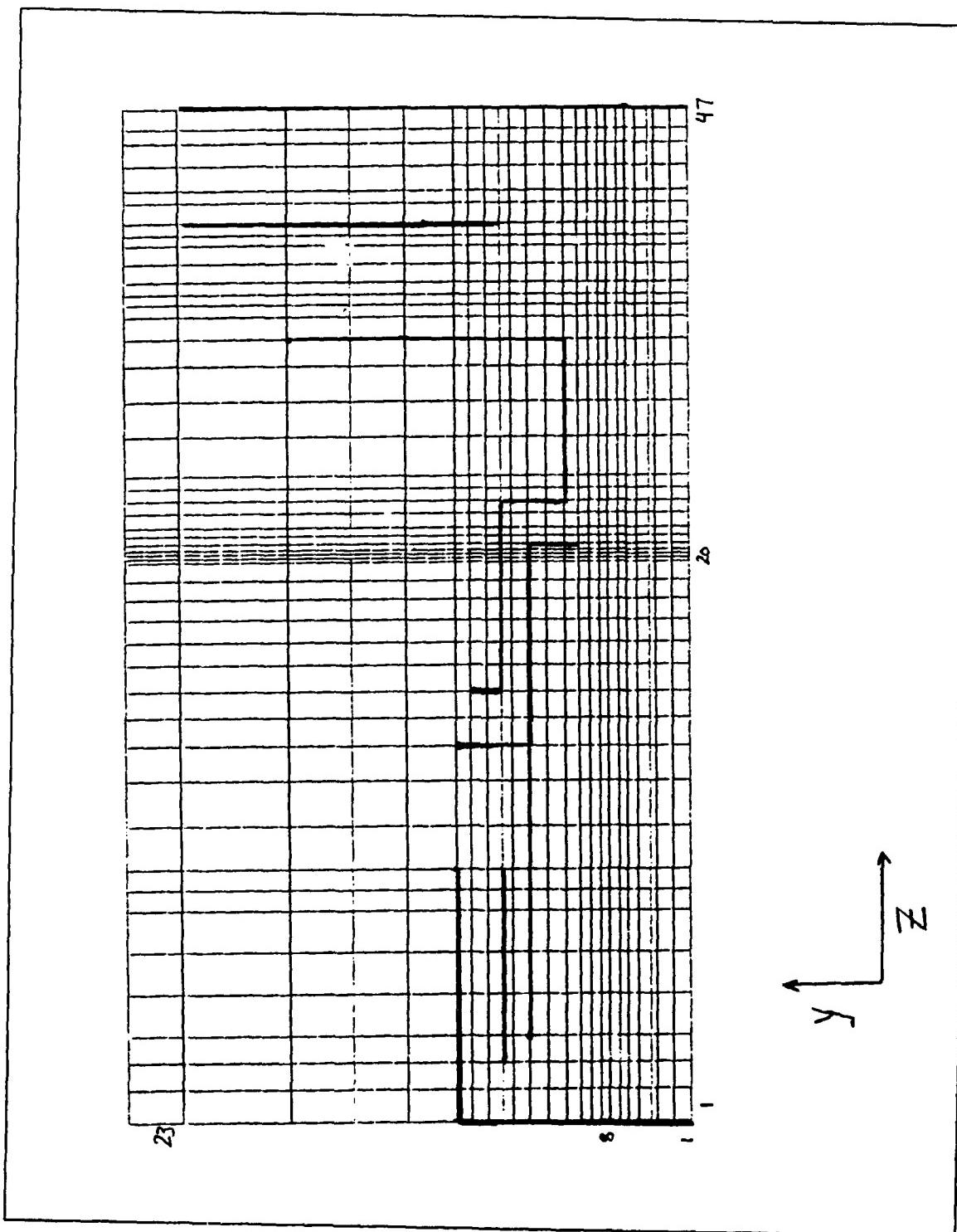


Figure 10. Coanda/Refraction test cell in Y Z plane

(air and exhaust gases), and all engine parameters. A list of the properties specified include:

- ambient pressure = 101325 Pa
- ambient temperature = 295 K
- mass flow of the engine = 175 kg/s
- gas constant = 286 Joules/kg-K
- c_p = 1004 Watt-s/kg-K
- engine exhaust stagnation temperature = 2000 K
- "no slip", friction, on all surfaces

A turbulence model "KEMODL" is also selected in Group 9. The "KEMODL" is governed by the following equations:

$$v_t = C_\mu k^5 l_m$$

$$l_m = C_D k^{1.5} \varepsilon$$

where:

v_t = turbulent viscosity

C_μ = viscosity constant

k = turbulence kinetic energy

l_m = turbulent mixing length

C_D = dissipation constant

ε = kinetic energy dissipation rate

(7) Group 11-Initialization of fields of variables, porosities, etc. Group 11 provides various commands that define initial dependent variables. The PATCH command for example, defines regions in space and time over which initial values, boundary conditions or sources are to be set. Other commands for field initialization that are described in the PHOENICS User's Manual (reference six) include the FINIT and INIT commands.

(8) Group 13-Boundary and internal conditions. Group 13 provides commands for the full or partial blockage of flow at desired places. The CONPOR statement is a key word command that provides for structural flow obstructions as well as desired wall friction.

(9) Group 15-Termination criteria for sweeps and outer iterations. Group 15 allocates a total number of iterations (sweeps) for a particular computer run. For example, 100 sweeps were run during a one hour of cpu time (actual computational time). A total of 30,000 sweeps or an equivalent of 240 hours of cpu time was used in this problem.

(10) Group 16-Termination criteria for inner iterations. Group 16 provides a user specified number of iterations within a slab (a slab contains all cells at a particular "Z" location) before proceeding to the next slab. If for example, a greater number of iterations for pressure was required to increase the rate of convergence, then the LITER command can be used to increase the number of iterations within a slab for pressure.

(11) Group 17-Under relaxation and related devices. Group 17 provides the user with the RELAX command. RELAX allows the manipulation of the rate of convergence (See 3.Convergence/Divergence page 21 for more detail).

(12) Group 18-Limits on variable values. Group 18 allows setting the maximum and minimum values for the dependent variables through the use of VARMAX and VARMIN commands. The maximum and minimum values established by these two commands are used in controlling divergence of any dependent variables (see PHOENICS User's Manual, reference six).

(13) Groups 19-23-Print control outputs. Groups 19-23 provide various print control options. Contours and profiles for any of the dependent variables can be obtained as part of the hard copy of the computer results. Contour diagrams are plotted over area domains, while profile curves are plotted over a single axis domain.

(14) Group 24-Preparation for continuation runs. Group 24 provides various restart capability options. Since the solution to the modeling of the Coanda Refraction #2 test cell required thousands of iterations, a restart capability was necessary. After every computer run, the final output is written into a restart file named DF09. The DF09 file output was then used as the input to the next computer run.

The DF09 file can also be used by PHOTON. PHOTON is a graphical display software that provides contour lines of pressure and temperature as well as vector representation of velocity.

3. Convergence/Divergence

The determination of whether a problem is reaching a valid solution is based on various factors. One major factor is the "convergence" (or "divergence") of a solution through the analysis of the "residual values" which are given after every sweep.

Residual (difference) values are determined by comparing the values of the dependent variables with their preceding sweep values. If the residual is decreasing, then the solution is converging. If the residual is increasing, then "divergence" is occurring and corrective steps must be taken in order to attain a correct solution.

Achieving a successful solution is dependent upon the experience of the user in providing an accurate model of the problem and choosing effective settings of PHOENICS solution controls. If a solution is "diverging" the user can apply the RELAX command to revert into a "converging" solution. The RELAX command manipulates the rate of change of the dependent values during the solution process. A small RELAX value permits only small value differences per iteration. This will reduce divergence but will require additional iterations and more computer resources. Conversely, a large RELAX value permits large value differences per iteration. A large RELAX value would result in less iterations but could lead to a divergence of a problem. A good selection of RELAX parameters results in a converged solution in a timely manner.

IV. RESULTS

A. EXPERIMENTAL RESULTS

1. Test A

The experimental test data was obtained from two reports. The first report, which will be identified as test "A" was contracted to Coastal Marine Research Inc. (CMR) by Naval Ocean Systems Center. The testing was conducted over a four day period (15-18 Aug 1983) and involved the evaluation of the aerothermodynamic characteristics of the Coanda/Refraction test cell, the facility discussed in this thesis.

All pressure readings were measured by a combination of pressure gauges and U tube manometers. Temperature data was measured by type K (chromel-alumel) thermocouples and DORIC DS-300 therm indicators.

Instrumentation was located at all inlet and exhaust outlets and throughout the Coanda surface. At the exit of the Coanda surface, CMR installed a special Coanda exit rake (see Figure 11) which contained a total of nine pressure probes and eight thermocouples.

2. Test B

The second test data report (Test B) was conducted by the Naval Air Propulsion Center in Oct 1987. Velocity and pressure readings were taken with the Compusflow Electro Manometer. Figure 12 provides specifications on the Compusflow Electro Manometer. Instrumentation of Test B was located at all inlets and excluded the exhaust stack outlet and the Coanda surface.

B. DISCUSSION OF GRID REFINEMENT

The numerical data obtained through PHOENICS is based upon the grid model given in Chapter 3 Page 17 ($NX = 9$ cells, $NY = 23$ cells, $NZ = 47$ cells). This was the last of four grid configurations.

The first grid configuration consisted of $NX = 8$, $NY = 19$, and $NZ = 32$ cells. This grid configuration proved too coarse and convergence was not possible. The temperature variable tended to dominate the whole field, resulting in extremely high temperatures permeating throughout the Coanda test cell facility. Attempts to suppress temperature were not successful.

In the second grid configuration, " NZ " was increased to 40 cells while maintaining $NX = 8$ cells and $NY = 19$ cells. The second grid configuration still needed refining at the

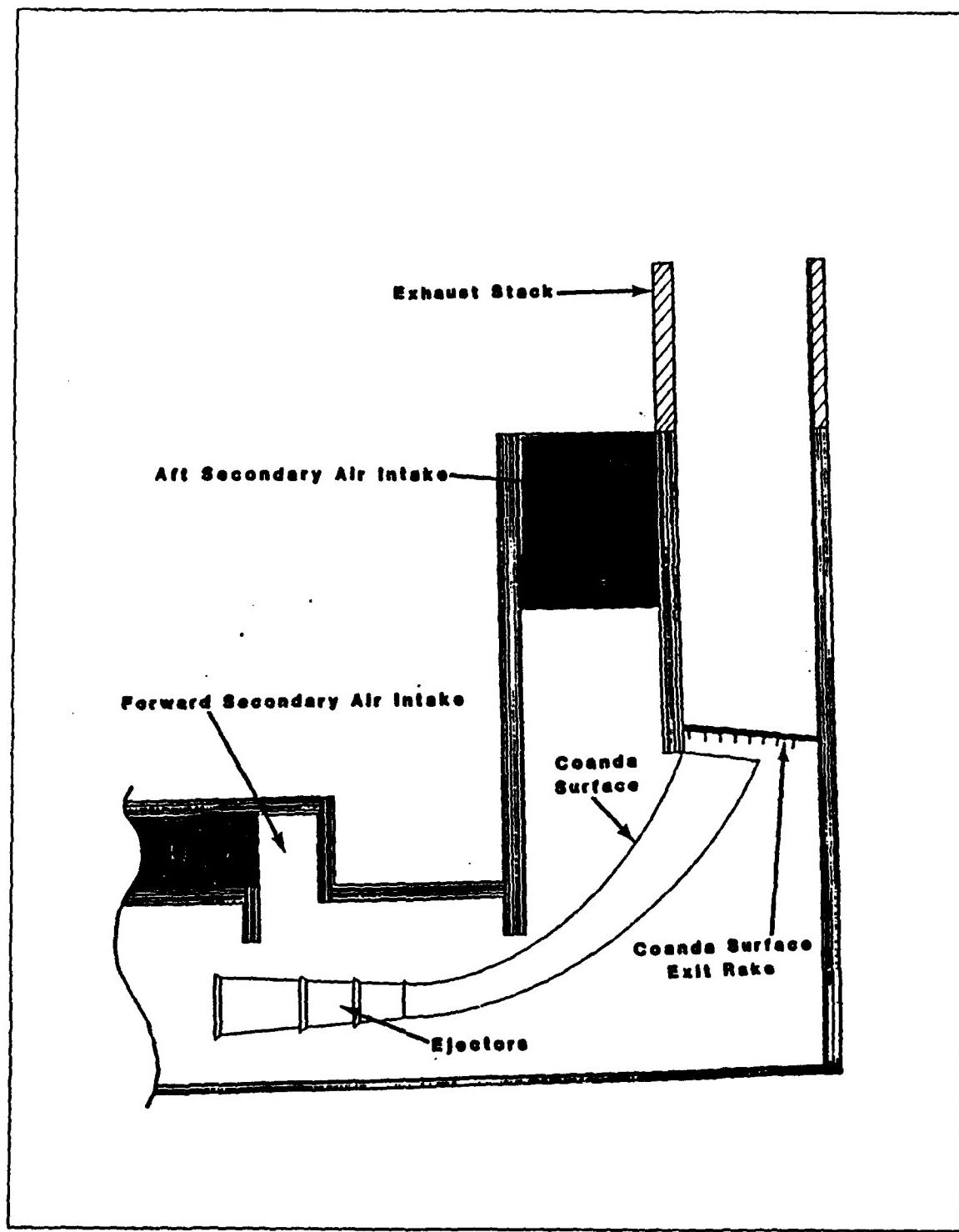


Figure 11. Coanda exit rake

Compufflow® ElectroManometer™	
Range	0 to 20 inches of water (0 Pa to 5 kPa)
Pressure	0 to 20 inches of water (0 Pa to 5 kPa)
Maximum air velocity	English - 830,9990 FPM Metric - 31 to 91 m/s (equivalent to 17,900 FPM)
Temperature	
Instrument operating	0 to 122°F (-18 to 50°C) Accuracy not specified below 32°F
Storage	-40 to 150°F (-40 to 65°C)
Humidity (non-condensing)	5 to 95% @ 40°C
Resolution	
Pressure	0.005 inches of water from 0 to 1 inch of water. 0.05 inches of water from 1 to 20 inches of water (1 Pa from 0 to 250 Pa, 10 Pa from 250 to 5 kPa)
Velocity	10 FPM (1 FPM in hold), 0.01 m/s
Accuracy	
Basic	± 1% of indicated reading ± resolution
Meter Accuracy	± 1.5% of indicated reading or better from 2000 FPM
Pressure Mode (After zeroing)	Three 1.2V C size rechargeable 1800 mAH NiCd batteries. Maximum 8 hours battery life without printer. Four hours battery life plus 500 lines of print with printer. Battery recharge time 12-14 hours.
Velocity conversion accuracy	
Power source	
Instrument display	4 digit, 1/8" (8mm) high LED's. Separate indication for inches of water, Pa, FPM, m/s, and HOLD.
Instrument case	Black impact resistant plastic.
Instrument dimensions	3" x 4" x 8 1/4" (77 x 102 x 216mm).
Instrument weight	1 lb. 10 oz. (809 grams) with batteries
Compufflow® MicroPrinter™	
Print method	Thermal
Printer speed	One line per two seconds minimum, 20 characters per line.
Temperature range	Operational 50 to 104°F (10 to 40°C) Storage -20 to 140°F (-30 to 60°C).
Power source	The MicroPrinter receives its power from the ElectroManometer instrument battery pack. Batteries provide service of four hours plus 500 lines of print.
Instrument case	Black impact resistant plastic
Instrument dimensions	2 1/2" x 3 1/2" x 6 1/4" (64 x 89 x 163mm)
Instrument weight	1 1/2 lbs (688 grams)
Carrying case	Black plastic padded case 17 1/2" x 4 1/2" x 13" (442 x 119 x 333mm) holds the ElectroManometer and the MicroPrinter, battery charger, one extra roll of paper, three extra batteries, and a standard Pitot-static probe.
*Specifications are based on normal ambient room temperature. Unit is temperature compensated. Check owners manual for further information. Specifications subject to change without notice.	

Figure 12. Compufflow Electro Manometer Specifications

outlet of the engine and in the exhaust stack (see Figure 2 on page 6 for component diagram). Temperature, again continued to dominate the solution field, and further refinement of the grid was necessary. Based upon previous modeling work of other test cell facilities with PHOENICS, temperature has had tendencies to dominate the solution field.

In the third grid configuration ($NX = 8$, $NY = 20$ and $NZ = 43$), the computer results reflected a more logical solution. Temperature, as well as all other variables, appeared reasonable. A final refined grid configuration of $NX = 9$, $NY = 23$ and $NZ = 47$ was used in obtaining a solution. It was felt that the additional cells would provide a more accurate solution.

It is important to note that the solution obtained in this thesis is not grid independent. Time constraints prevented trying other finer grid configurations to verify grid independence. Appendix B provides a sample computer output run.

C. FLOW DIRECTIONS

The numerical data was qualitatively in good agreement with the designed flow path of air and exhaust gases through the Coanda/Refraction test cell (see Figure 3 on page 7). That is, all velocity components (u v w) correlated to expected flow patterns. Air entered the primary intake in route to the engine inlet. The forward and after secondary intakes provided cooling air for the exhaust gases. The ejector tubes provided the mixing of cooling air and exhaust gases. The exhaust stack allowed exhaust gases to exit into the atmosphere.

Through the use of PHOTON, the graphical software discussed in chapter 3, a vector representation of flow is presented in Figure 13 to Figure 15. All PHOTON figures presented in this thesis are identified by the first and last slabs of the region in discussion.

In Figure 13 flow can be seen entering the primary air inlet and coming around to the inlet bay area in route to the engine inlet. Note the velocity increase as flow approaches the engine.

Figure 14 represents the flow region around the engine. In Z slab 12, one can see the convergence of the vectors towards the engine inlet. The flow vectors above the engine are small in magnitude and tend to flow towards the engine outlet.

The engine exhaust area (starting at Z slab 30) to the exhaust stack is represented in Figure 15. Note the large vector representations. Also one can see the flow bending towards the exhaust stack.

D. NUMERICAL MODEL VS. EXPERIMENTAL RESULTS

1. Upper Primary Inlet

Before proceeding with a discussion of analytical versus experimental results, it should be stated that neither experimental nor analytical data are precise results. The experimental data measurements of both test A and test B were subject to tremendous pressure and temperature fluctuations. The Coanda test cell facility provided a less than desirable environment for measurement testing. The high vibrations and exhaust temperatures hampered accurate test measurements. [Ref. 7]

The analytical model had two major inconsistencies. The specific heat for constant pressure, c_p , was maintained at 1004 watt-s/kg-K throughout the test cell. This c_p

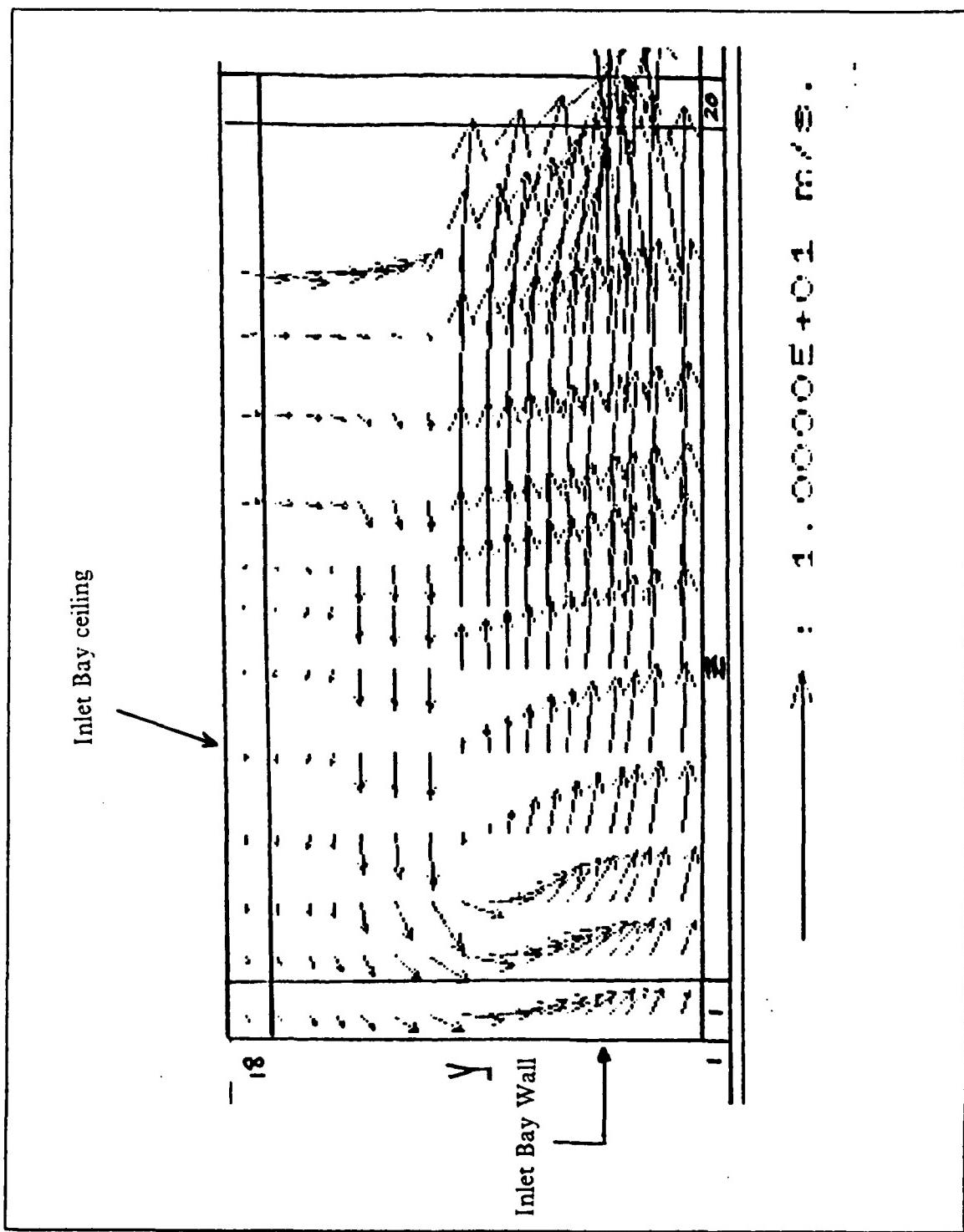


Figure 13. Flow vector plot in Y-Z plane (Primary inlet to inlet bay)

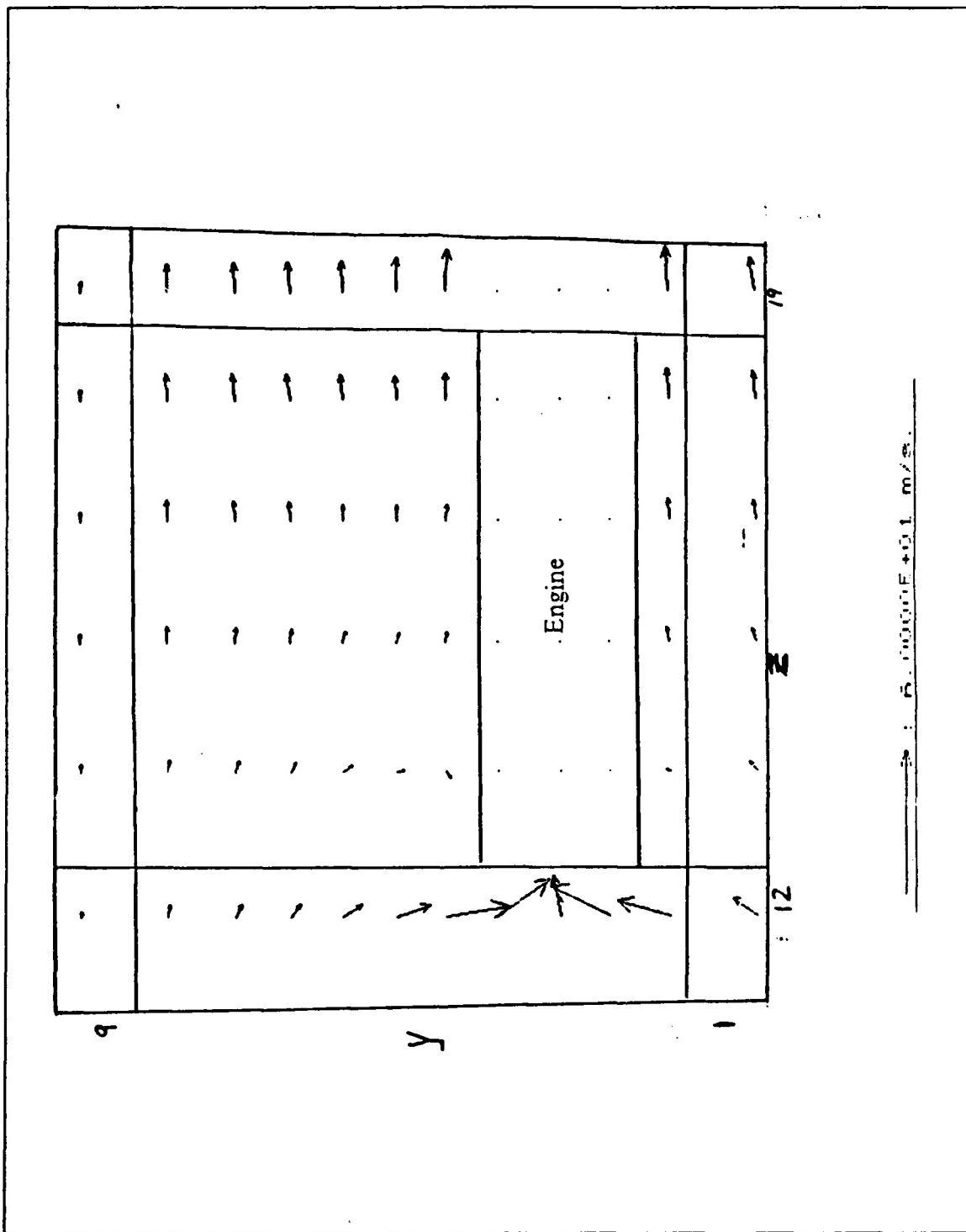


Figure 14. Flow vector plot in Y-Z plane (Region around the engine)

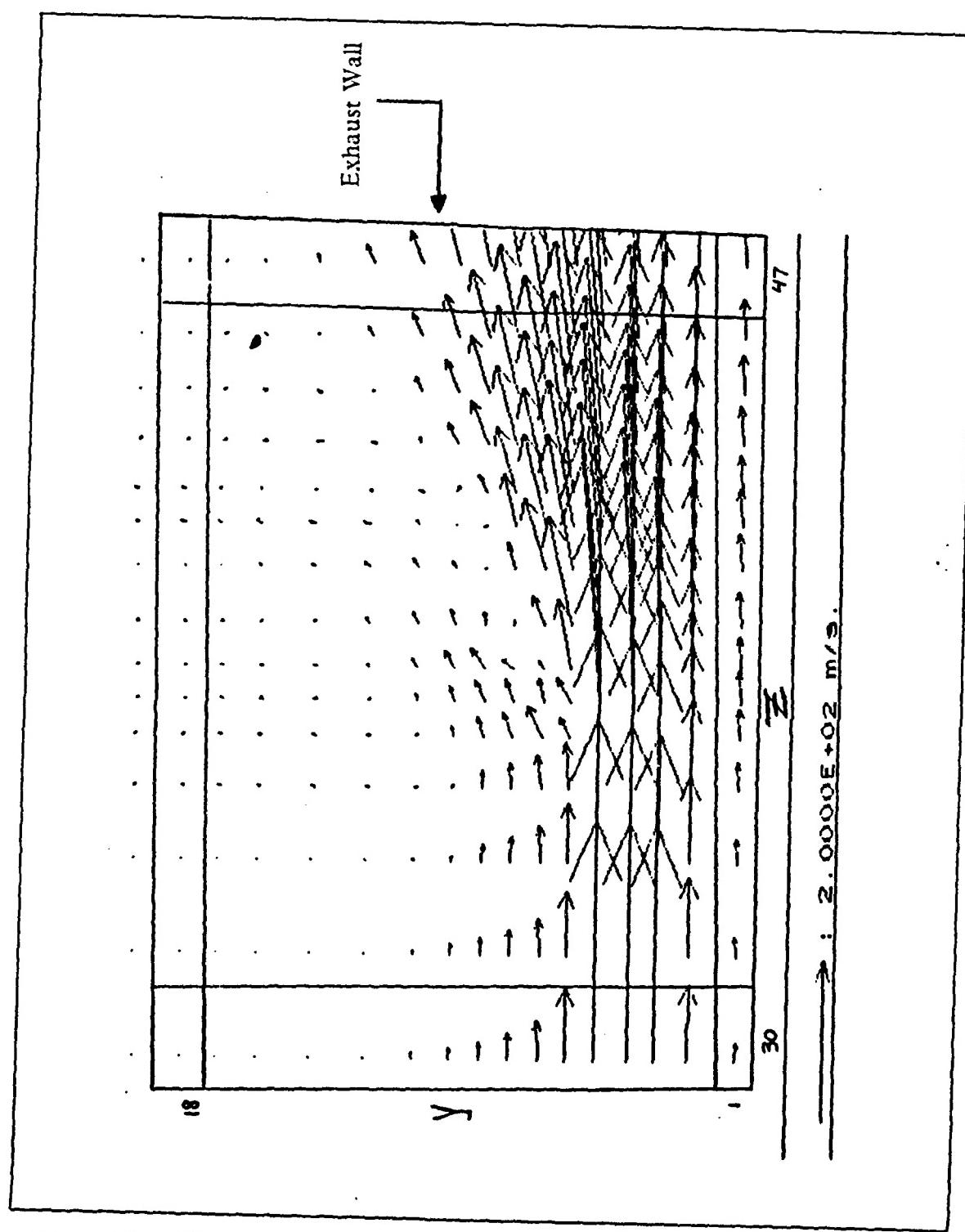


Figure 15. Flow vector plot in Y-Z plane (Engine outlet to exhaust stack)

value is good for only ambient temperature. Thus as temperature fluctuations occurred through the test cell, c_p , should have varied accordingly. For the temperature ranges of this investigation, c_p varies from 1004 watt-s kg-K at 295 K to 1310 watt-s kg-K at 2000 K.

Using the mass flow rate equation of

$$\dot{m} = \rho A w$$

where:

\dot{m} is the mass flow rate

ρ is density

"A" is the area

"w" is the velocity

the analytical model had discrepancies. For example, the required mass flow rate out of the engine was set at 175 kg s. The mass flow rate through the primary inlet (provides air to engine inlet) was only 41 kg s. This low mass flow rate results in low velocities which is evident in the analytical results that follow.

A comparison of numerical model results to experimental results in the upper primary inlet (see Figure 2 on page 6 for exact location) are provided in the following table.

Table 1. UPPER PRIMARY INLET

Results	Axial Velocity(m's)	Temperature (K)
Test A	10.7	295
Test B	10.4	295
Analytical	.3	295

Although temperature (ambient) matched exactly, the predicted axial velocity (w component) was much lower than experimental results. There was little activity in the upper primary inlet. The numerical data for example indicated a vertical velocity (v component) of less than .006 meters/second (m/s). The velocity in the u component was .01 m/s. Turbulence was negligible and the static pressure differential was -2.48 Pascals (Pa). Note that all pressures are given as the difference from the ambient pressure (101325 Pa).

2. Lower Primary Inlet

Due to the design characteristics of the Coanda test cell facility, a higher axial velocity was expected in the lower primary inlet in comparison to the upper primary inlet (see Figure 2 on page 6 for exact location). As can be seen in the following table, the lower primary inlet did have higher velocities than the upper primary inlet.

Table 2. LOWER PRIMARY INLET

Results	Axial Velocity(m/s)	Temperature (K)
Test A	14.6	295
Test B	18.7	295
Analytical	1.5	295

The analytical axial velocity was extremely low in comparison to the experimental velocity. The numerical model indicated little activity in the lower primary inlet. The vertical velocity (v component) was .008 m/s while velocity in the u direction was .001 m/s. The static pressure differential was -9.48 Pa. Turbulence, as in the upper primary inlet was also negligible.

3. Inlet Bay

Since no experimental data was available for the inlet bay area (see Figure 2 on page 6 for exact location), information about inlet bay behavior was obtained from interviews with the operating personnel of the Coanda test facility. The information included: [Ref. 8]

- temperatures throughout the inlet bay area are ambient (295 K).
- velocity throughout the inlet bay area increases as flow approaches the engine inlet.

Analytical results supported personnel observations. Temperature was ambient (295 K) throughout the inlet bay. Velocity did increase as flow approached the engine inlet. For example, at eight meters from the engine inlet, the axial velocity was 2.9 m/s. At a distance of two meters from the engine inlet, the velocity had increased to 10 m/s. The numerical model indicated that velocities in both the Y and X directions were minimal. The analytical static pressure differential did increase to -122 Pa at the engine inlet.

4. Engine outlet region

The engine outlet region (see Figure 2 on page 6 for exact location) begins at the engine outlet and extends 6.6 meters to the end of the ejector tubes. This area contains the highest temperatures and velocities found in the Coanda test cell facility. Flow from the engine outlet region to the Coanda surface is turbulent (a Reynolds number of $13E+6$ is calculated in Figure 16).

Experimental data was not available for the engine outlet region. Analysis of the numerical data indicated tremendous flow activity in the engine outlet region. The following table presents the numerical data at the engine outlet.

Table 3. ENGINE OUTLET

Results	Axial Velocity (m/s)	Vertical Velocity (m/s)	Static pressure differential (Pa)	Turbulence (Joules)
Analytical	800	71	+ 28568	25000

Note the high positive static pressure differential at the engine outlet. The large axial and smaller vertical velocities coupled with large turbulence of 25,000 Joules indicate a tremendous amount of turbulent mass flow traveling through the ejector tubes. In the area around the ejector tubes, the flow is more stable. Axial velocity (w component) is 20 m/s while the vertical velocity (v component) is 4 m/s. Velocity in the u component is 5 m/s.

5. Forward Secondary Air Intake

The analytical and experimental results for the forward secondary air intake (see Figure 2 on page 6 for exact location) are:

Table 4. FORWARD SECONDARY AIR INTAKE

Results	Vertical Velocity(m/s)	Temperature (K)
Test A	9.6	295
Test B	29.7	295
Analytical	4.4	295

It is interesting to note the significant difference of the vertical velocities (v component) between the two experimental tests (test A, test B). Test B with a vertical velocity of

$$Re = \frac{\rho w L}{\mu}$$

ρ = density at 2000 K---174 kg/m³

w = axial velocity---800 m/s²

L = length of engine outlet region---6.6 m

μ = viscosity at 2000 K---689E-7 N s/m²

Re = Reynolds number---13E + 6

Figure 16. Reynolds number calculation

29.7 m/s is over three times as large as the vertical velocity of test A. The analytical vertical velocity results provide a significantly lower velocity than the experimental results. The analytical model indicated a static pressure differential of -40 Pa. The axial velocity (w component) was 1.3 m/s. Velocity in the x direction (u component) was negligible.

6. After Secondary Air Intake

The experimental and analytical results for the after secondary air intake follow:

Table 5. AFTER SECONDARY AIR INTAKE

Results	Vertical Velocity(m/s)	Temperature (K)
Test A	12.4	295
Test B	34.0	295
Analytical	2.0	295

Significant differences between the experimental and analytical data are apparent. The analytical vertical velocity of 2.0 m/s is much lower than the 12.4 m/s and 34.0 m/s obtained in test A and test B respectively. Small flow activity through the after secondary inlet was indicated in the analytical model. The analytical static pressure differential was only -13 Pa. The axial (w component) velocity was .18 m/s while ve-

locity in the u direction was .2 m/s. The analytical turbulence was a negligible .45 Joules.

7. Coanda Surface

The Coanda surface (see Figure 2 on page 6 for exact location) extends from the end of the ejector tube to approximately midway up the exhaust stack. The analytical and experimental results are presented in the following table.

Table 6. COANDA SURFACE (AT THE EXIT RAKE)

Results	Vertical Velocity(m/s)	Temperature (K)
Test A	84.7	1000
Test B	----	----
Analytical	48.0	810

Note that the exact location of the experimental and analytical results in Table 6 is at the Coanda exit rake (see Figure 11 on page 24 for exact location).

The analytical vertical velocity was lower than the experimental data of test A. A temperature correlation between analytical and experimental data provided a 20% difference in temperature.

The numerical model indicated some flow activity at the exit rake of the Coanda surface. The analytical axial velocity (w component) was 28 m/s while turbulence was 721 Joules. The analytical pressure differential was -74 Pa.

8. Exhaust Stack

Experimental data on the exhaust stack was not available. Interviews with the operating personnel of the Coanda test cell facility indicated that the exit exhaust stack temperature was approximately 322 K (118 F) [Ref. 8]. The analytical temperature of 325 K (122 F) compared quite favorably with the 322 K approximation. An exit velocity of 3.9 m/s was obtained in the exhaust stack.

E. PROFILES

Using the analytical data obtained through PHOENICS, profiles of temperature, axial velocity, and pressure differential were plotted over the Z axis domain at IY = 4 and IX = 1.

1. Temperature profile

In the temperature profile (see Figure 17) an ambient temperature of 295 K can be found throughout the inlet bay (IZ = 1 to 12). At IZ = 20, the engine outlet temperature is 2000 K. The temperature begins to decrease immediately after slab 20. Note

the 60% temperature drop from the engine outlet to the entrance region of the ejector tubes ($IZ = 27$). From the ejector tubes to the entrance of the Coanda surface ($IZ = 27-35$), the temperature drops by another 7%. The remaining temperature drop occurs through the Coanda surface and the exhaust stack. The exit exhaust stack temperature is 325 K.

2. Pressure differential profile

The pressure differential (Figure 18) throughout the inlet bay ($IZ = 1$ to 12) is constant. At the engine inlet, slab 12, a slight negative pressure differential of -122 Pa is formed. At the outlet of the engine ($IZ = 20$), a positive pressure differential of 28,000 Pa is observed. A negative pressure differential of -8000 Pa occurs at the entrance region of the ejector tubes ($IZ = 24$). Another large negative pressure differential of -15000 Pa is formed in the ejector tubes ($IZ = 27$). In the Coanda Surface ($IZ = 35$ to 38), a negative pressure differential of -2000 Pa is observed.

3. Axial velocity profile

The axial velocity (see Figure 19) increases through the inlet bay area ($IZ = 1$ to $IZ = 12$). At the engine inlet ($IZ = 12$), the axial velocity increases to 28 m/s. A maximum axial velocity of 860 m/s occurs at the engine outlet area (slab 22). At slab 26, the ejector tube inlet, the velocity decreases by 22% to 650 m/s. At the inlet of the Coanda surface ($IZ = 34$), another 31% decrease of axial velocity (to 380 m/s) is observed.

F. CONTOURS

1. Temperature contours

Figure 20 to Figure 22 provide temperature contours throughout the Coanda test cell facility. Since the temperature throughout the inlet bay was ambient (295 K) temperature contours in that region were not necessary. Figure 20 represents the engine exhaust region ($IZ = 20-30$). Note the high temperatures around the engine outlet.

In Figure 21 temperature contours from the engine outlet to the exhaust stack can be seen. Again, the temperature is highest at the engine outlet and quickly cools off downstream from the engine.

The last temperature contours Figure 22 represent the exhaust region from slabs 31 to 47. Note the segmented (step) region. This area illustrates the dispersion of temperature along the Coanda Surface. The segmented geometry representing the Coanda surface is a result of using the Cartesian Coordinate system to approximate the circular shape of the Coanda surface.

TEMPERATURE PROFILE IX=1 IY=4

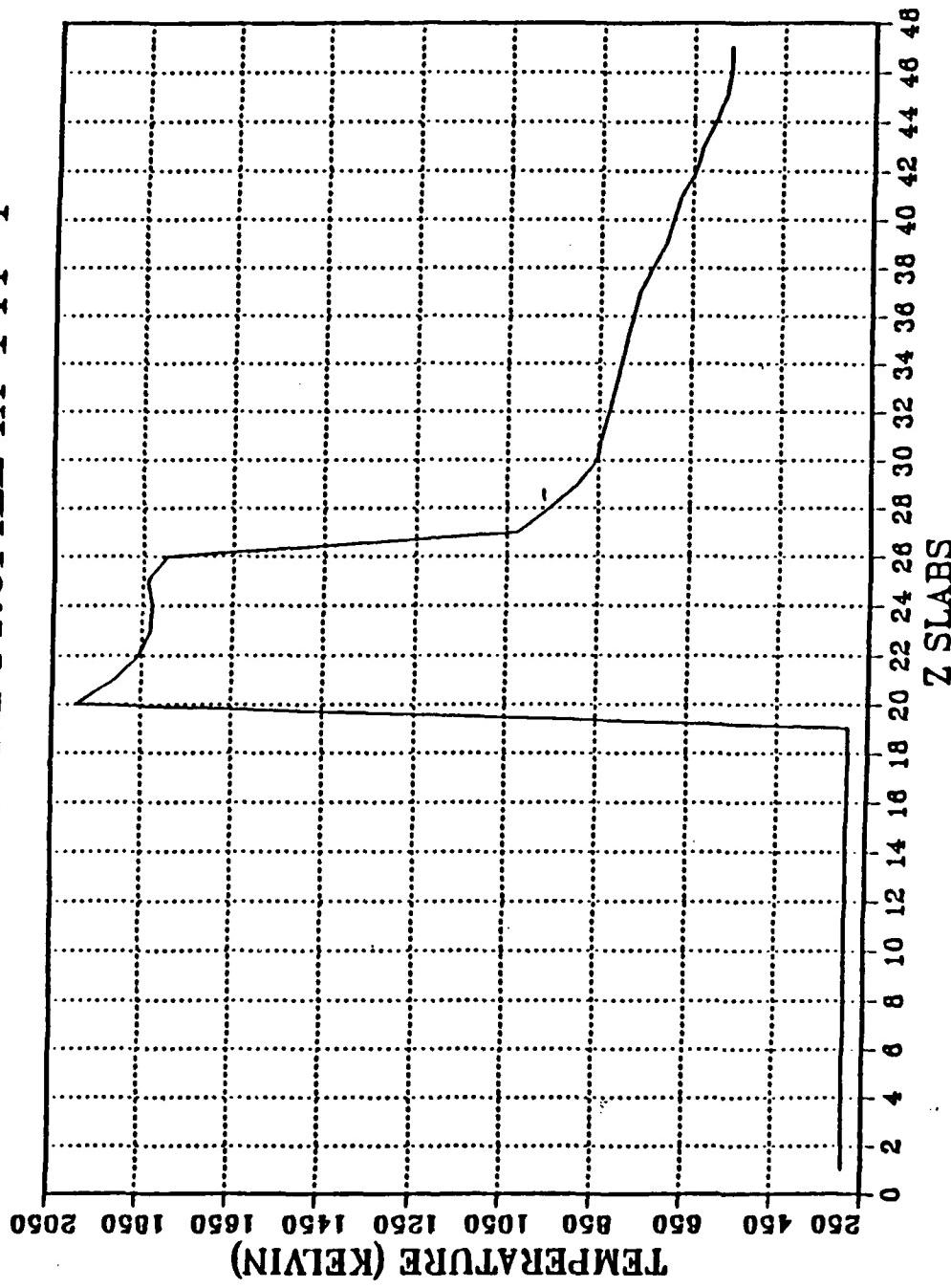


Figure 17. Temperature profile in the Z domain

Δ PRESSURE PROFILE IX=1 IY=4

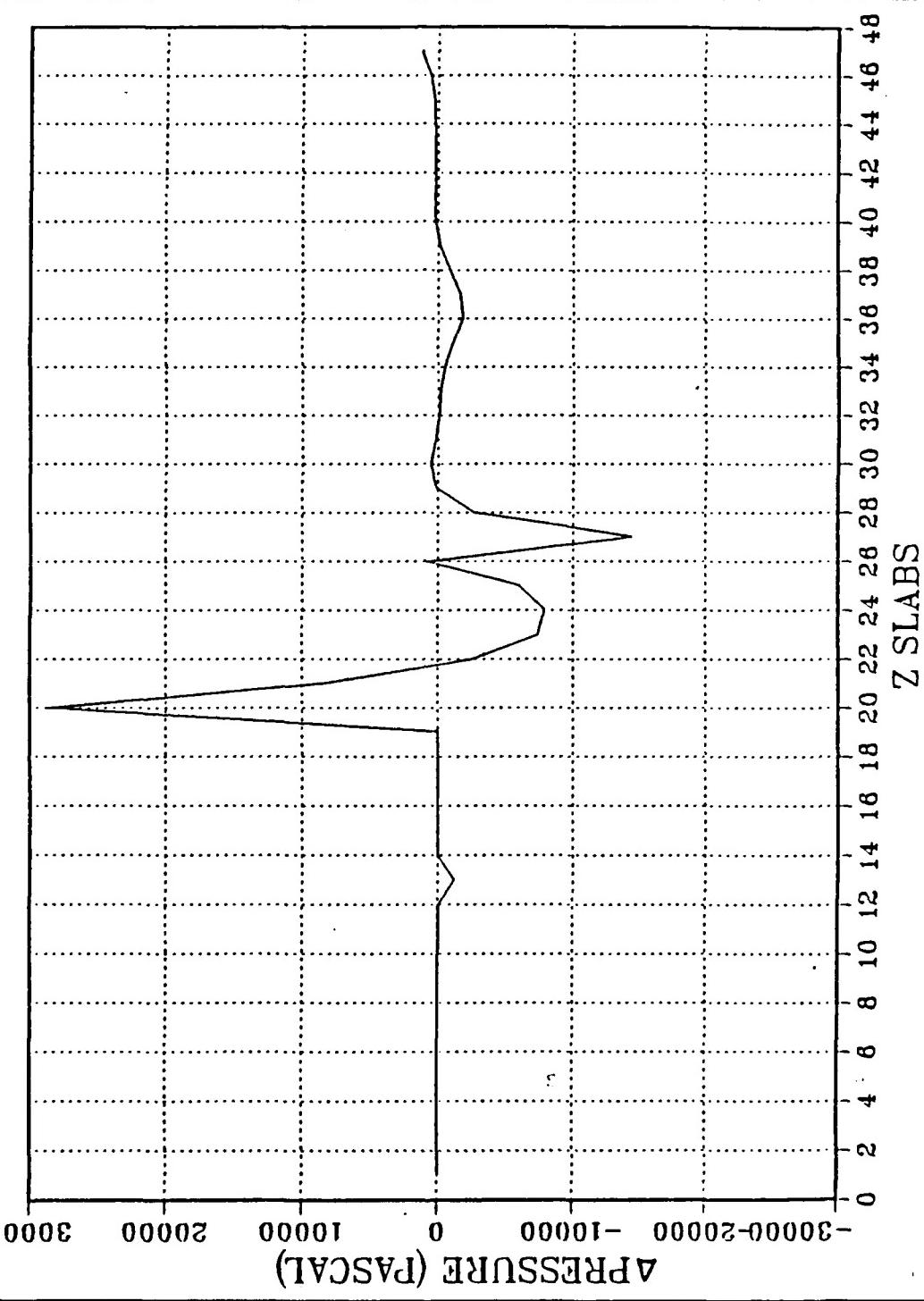


Figure 18. Pressure differential profile in the Z domain

AXIAL VELOCITY PROFILE IX=1 IY=4

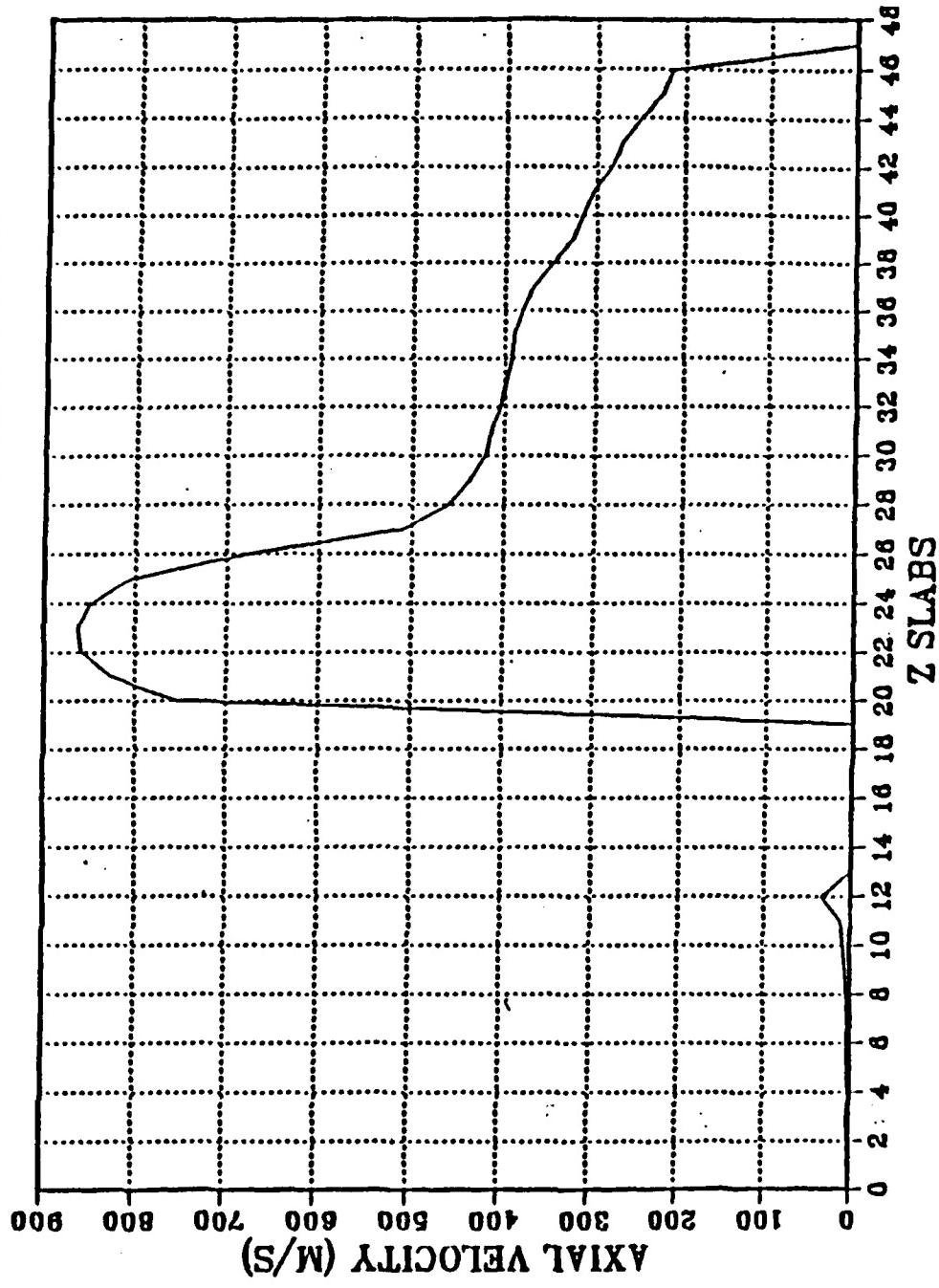


Figure 19. Axial velocity profile in the Z domain

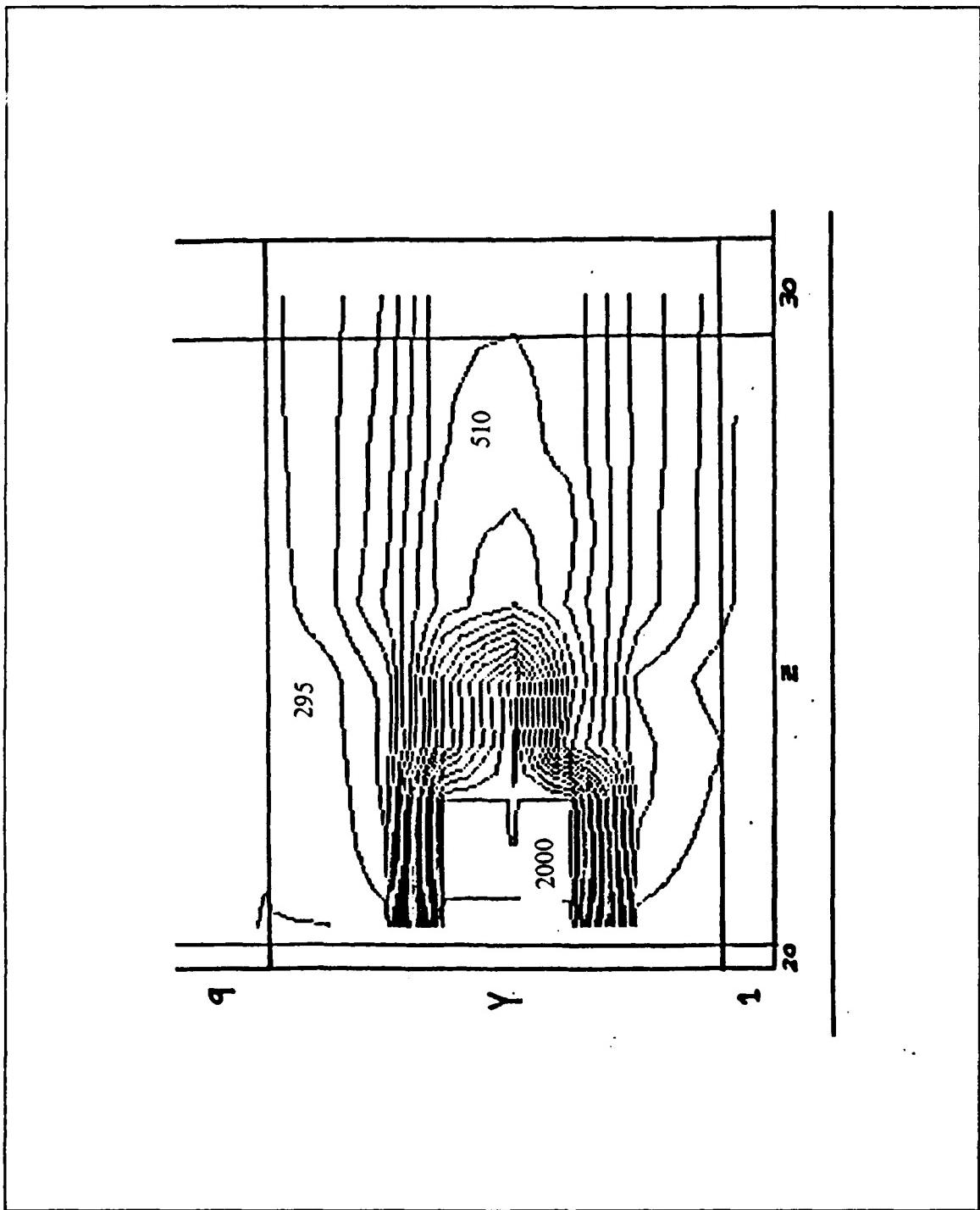


Figure 20. Temperature contours in Y-Z plane (Engine outlet) : (Range 295-2000 K / 20 intervals)

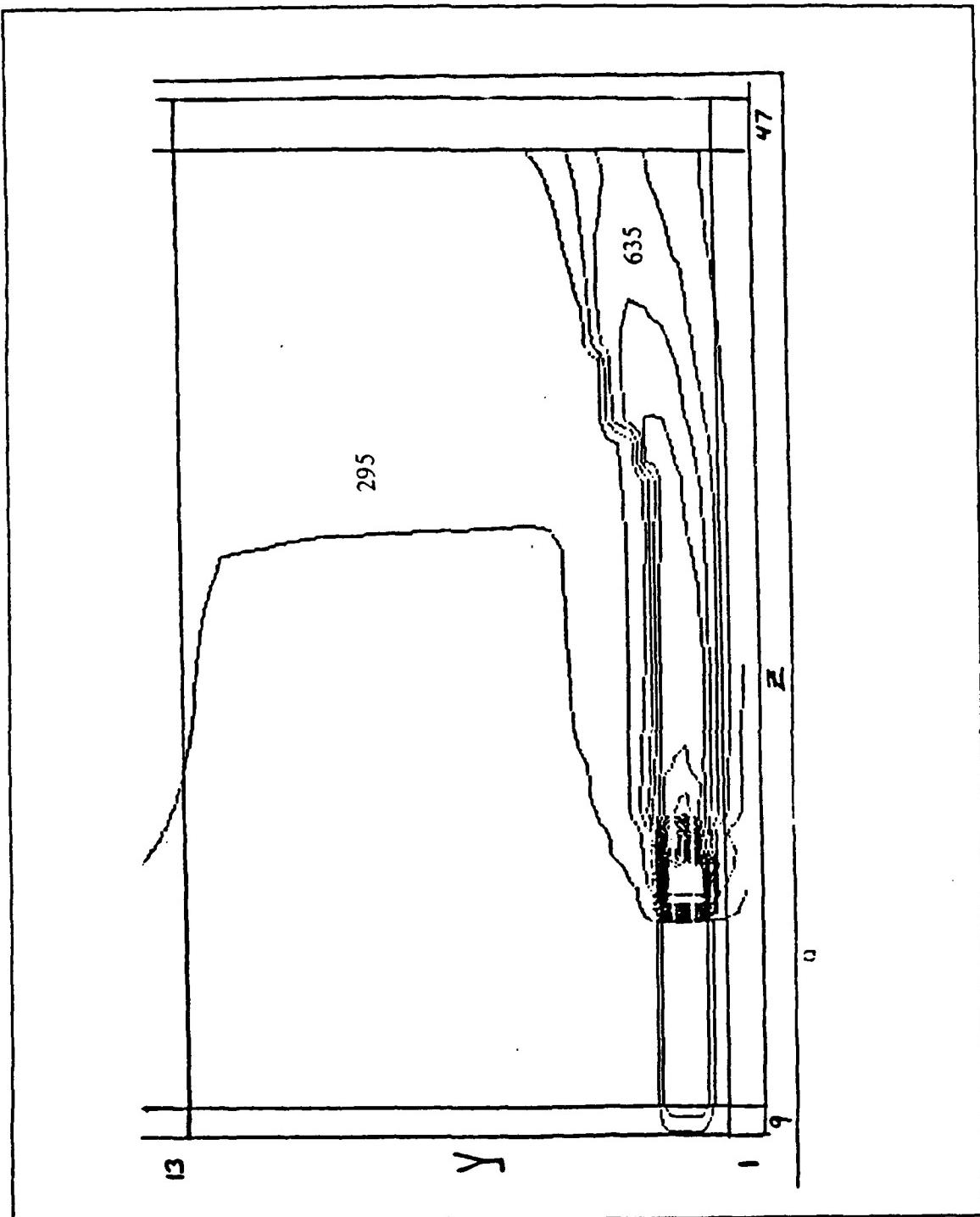


Figure 21. Temperature contours in Y-Z plane (Engine outlet to exhaust stack): (Range 295-2000 K / 20 intervals)

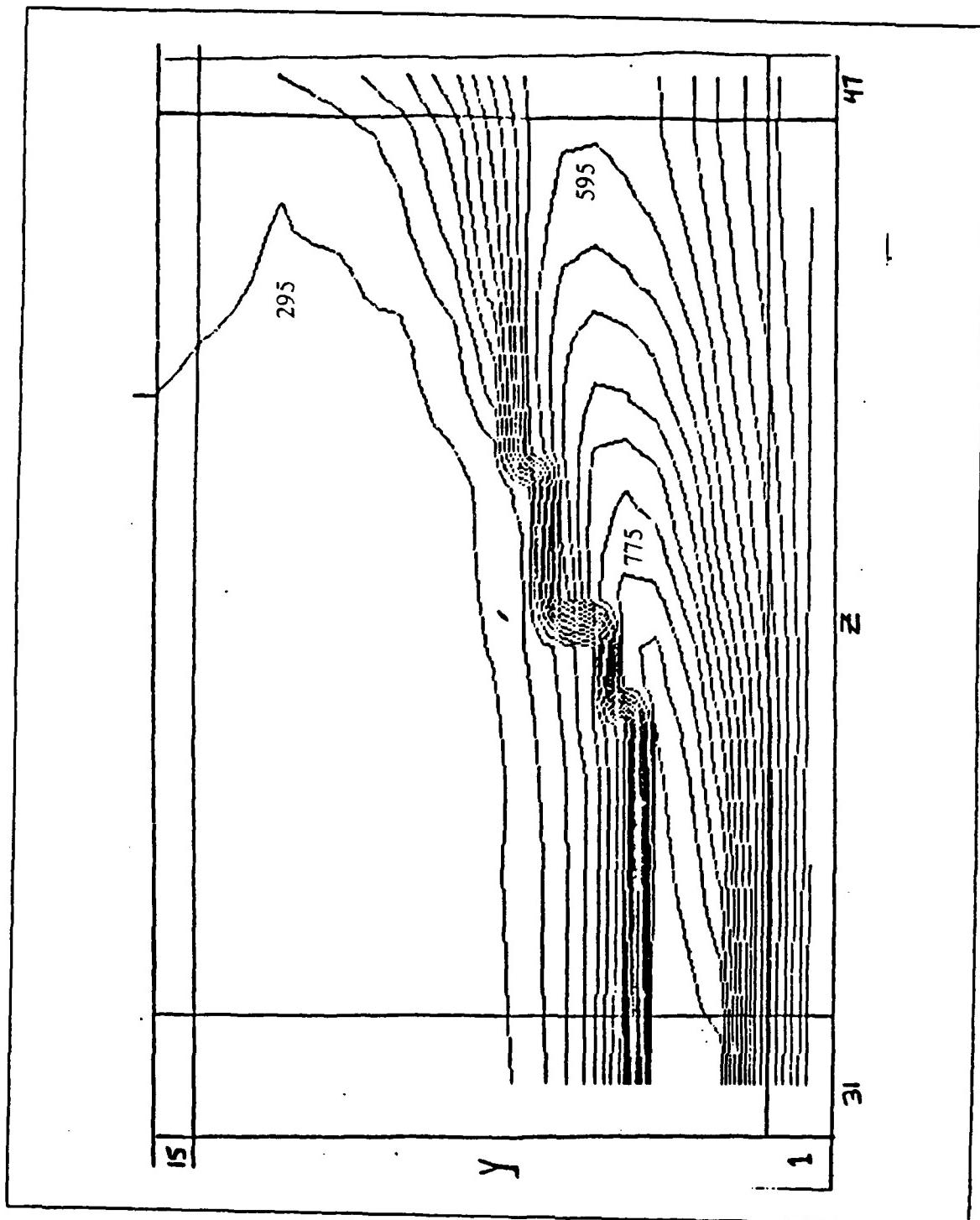


Figure 22. Temperature contours in Y-Z plane (Exhaust region IZ 31-47): (Range 295-895 K / 20 intervals)

2. Pressure differential contours

The pressure differential contours in the inlet bay area and upper primary inlet are represented in Figure 23. Note the increase in the negative pressure differential around the engine inlet (slab 12).

In Figure 24 the pressure differential contour of the engine outlet region ($I_2 = 20-30$) is illustrated. Pressure fluctuations are apparent throughout this region. A pressure differential of 28,000 Pa occurs at the outlet of the engine (slab 20). Two negative pressure differentials of -8000 Pa and -15000 Pa are also formed downstream of the engine. These pressure differential results are analogous to the pressure differential profile found in Figure 18.

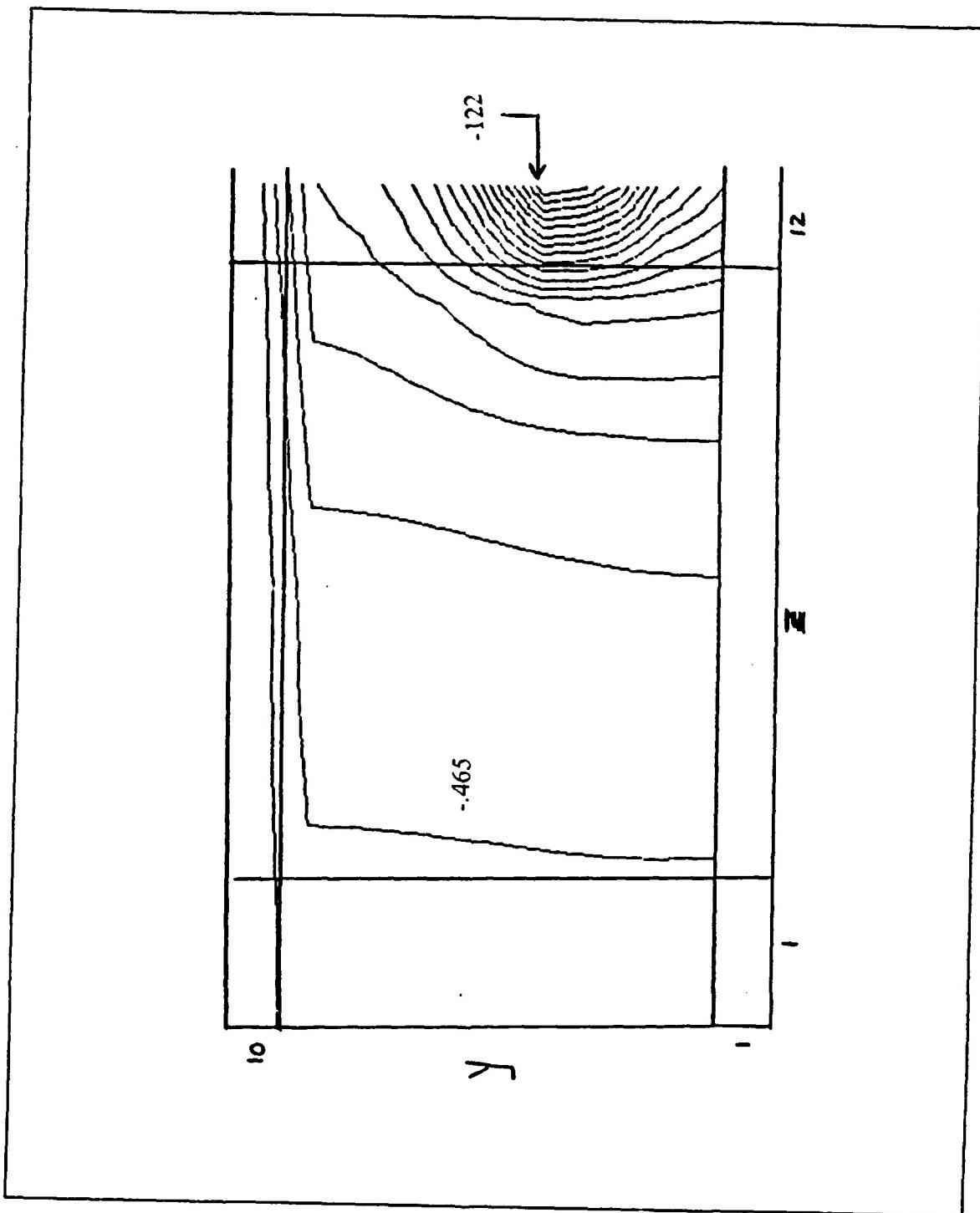


Figure 23. Pressure differential contours in Y-Z plane (Inlet bay): (Range -.465
-122 Pa / 20 intervals)

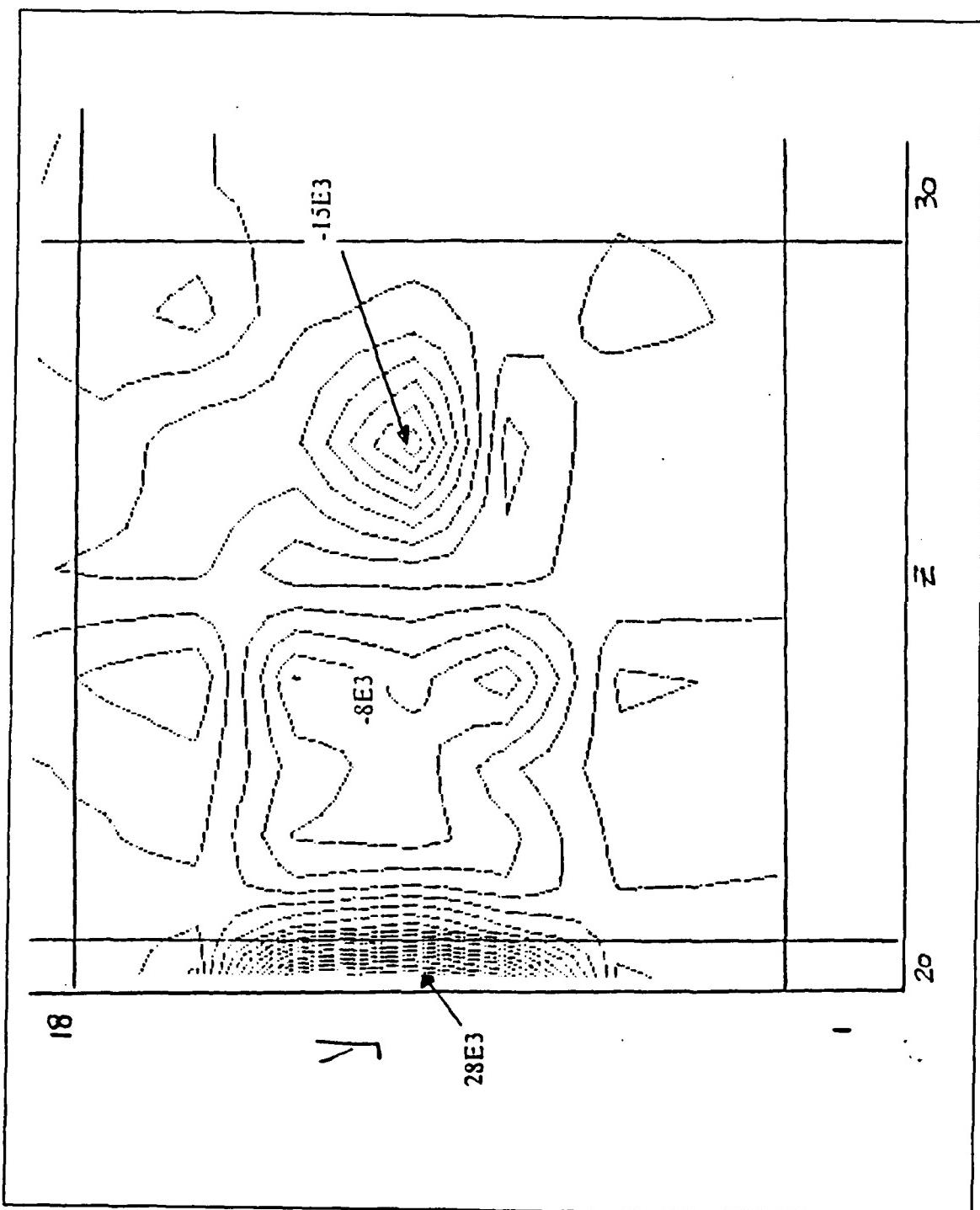


Figure 24. Pressure differential contours in Y-Z plane: (Range .289E5 -.152E5 Pa / 20 intervals)(Engine outlet region)

V. SUMMARY & RECOMMENDATIONS

A. SUMMARY

A computer model of the Coanda Refraction Jet Engine Test Cell facility was developed using the PHOENICS computer code. The PHOENICS code was utilized to determine the steady state aerothermal characteristics of the test cell during the testing of an F404 gas turbine engine with afterburner in operation. Computer generated aerothermodynamic field variables of pressure, velocity and temperature parameters were compared to operational field test data.

The analytical model provided excellent flow direction results. The flow of air and exhaust gases throughout the Coanda test cell matched designed expectations. In addition, a comparison of analytical and experimental data indicated that the analytical model provided lower velocity and temperature values than experimental data.

B. RECOMMENDATIONS

The numerical data provided by PHOENICS was qualitatively in good agreement with the expected flow path of air and exhaust gases through the Coanda test cell facility. However, quantitative results indicate more work is needed. Modeling of the Coanda Refraction test cell as well as other test facilities with PHOENICS should be continued. Some changes in the Coanda Refraction model will be necessary to improve and verify the accuracy of the analytical model.

Since only four grid configurations were attempted in this project. (two of which proved fruitless) finer grid models should be implemented. The question of whether the analytical model is grid independent could be resolved by using several new grid configurations. Particular attention should be given to the grid configuration at all inlet areas. By refining the grid configuration around the inlet areas (i.e. Primary air, Forward and After Secondary air), a closer correlation of analytical and experimental data should be attained.

The use of the Body Fitted Coordinate (BFC) option will increase the accuracy of the model. BFC would take into consideration the curvature of the Coanda Surface. This would result in a more accurate geometric model and enhance the accuracy of the numerical model.

The present analytical model neglects the effects of the attenuators which are located throughout the Coanda Refraction test facility. By incorporating these

attenuators as well as other obstructions into the model, the analytical model would produce better results.

Other turbulent models must be tried with the present analytical model. After examining the results obtained using various turbulent models, one could select the turbulent model that has the best agreement with experimental data.

To fully implement the power of PHOENICS, "what if" scenarios should be implemented. For example, by changing the length of the ejector tube in the Coanda Refraction test cell, PHOENICS can show how ejector tube lengthening affects system behavior. Other "what if" scenarios could include changing the location of the engine, adding or removing walls, and changing dimensions of various parts of the test cell.

C. CONCLUSION

The PHOENICS code has the ability to successfully model a complex geometric structure such as the Coanda Refraction test cell. PHOENICS has proven to be a very powerful modeling tool. By modeling the Coanda Refraction test cell as well as other test facilities, PHOENICS will provide a greater understanding of the aerothermodynamic characteristics of todays test cell facilities. This greater understanding will be incorporated into the design and modeling of future test cell facilities.

APPENDIX A. Q1 FILE

```
*****  
***  
***      LEMOORE TEST CELL #2 (COANDA TYPE)  
***  
***          TURBULENT MODEL  
***  
***  
*          LIST OF VARIABLES  
*  
*      WJET: VELOCITY OF ENGINE EXHAUST (METERS/SEC)      *  
*      MJET: MASS FLOW RATE OF GAS (KG/SECOND/SQ METER)    *  
*      TJET: JET EXHAUST GAS TEMPERATURE (DEGREES KELVIN)  *  
*      PJET: EXHAUST PRESSURE OF JET ENGINE (NEWTONS/SQ METER)  *  
*      RHOJET: DENSITY OF THE GAS (KG/CUBIC METER)        *  
*      HJET: ENTHALPY (JOULES/KG OR NEWTON*METERS/KG)     *  
*      KEJET: KINETIC ENERGY (JOULES OR NEWTON-METERS)    *  
*      GASCON: GAS CONSTANT (JOULES/(KG-DEG KELVIN))      *  
*      TAMB: AMBIENT AIR TEMPERATURE (DEGREES KELVIN)      *  
*      HAMB: AMBIENT ENTHALPY (JOULES/KG)                  *  
*      KEINJ: TURBULENT KINETIC ENERGY (JOULES) OF JET      *  
*      CSUBP: SP HT @ CONST PRE (JOULES/(KG-DEG KELVIN))  *  
*      EPINJ: DISSIPATION RATE OF TURBULENT KE (JOULES) OF JET  *  
*      KEINA: TURBULENT KINETIC ENERGY (JOULES) AMBIENT    *  
*      EPINA: DISSIPATION RATE OF TURBULENT KE (JOULES) AMBIENT  *  
*      P1: PRESSURE (NEWTONS/SQUARE METER)                 *  
*      H1: ENTHALPY (JOULES/KG)                            *  
*      U1: VELOCITY IN X-DIRECTION (METERS/SEC)            *  
*      V1: VELOCITY IN Y-DIRECTION (METERS/SEC)            *  
*      W1: VELOCITY IN Z-DIRECTION (METERS/SEC)            *  
*      TMP1: TEMP OF THE FIRST PHASE (DEGREES KELVIN)      *  
*      RHO1: DENSITY OF THE FIRST PHASE (KG/CUBIC METER)  *  
*      PRESSO: REFERENCE ATMOSPHERIC PRESSURE (NEWTONS/SQ METER)  *  
*      TMP1A: GROUND REF TEMP USED IN GRND2 (DEG KELVIN)   *  
*      TMP1B: 1/CSUBP USED IN GRND2 EQU (KG-DEG KELVIN/JOULES)  *  
*      DRH1DP: DELTA RHO/DELTA PRESSURE W/RESPECT TO H1      *  
*      FACT: CORRECTION OR "FUDGE" FACTOR                 *  
*      ENUL: LAMINAR KINEMATIC VISCOSITY (METERS SQ/SEC)    *  
*      ENUT: TURBULENT KINEMATIC VISCOSITY (METERS SQ/SEC)   *  
*****  
*  
GROUP1: TITLE  
*  
TEXT(COANDA RUN ; FINE GRID)  
*  
REAL(WJET,MJET,TJET,PJET,RHOJET,HJET,GASCON,CSUBP,TAMB,WIN,HAMB)  
REAL(KEINJ,EPINJ,KEINA,EPINA)
```

```

GROUP2: STEADY/TRANSIENT
STEADY =T
*
GROUP3: X DIRECTION GRID
*
NX= 9
XFRAC(1)=-2. ; XFRAC(2)=0.260
XFRAC(3)= 2. ; XFRAC(4)=0.39
XFRAC(5)= 3. ; XFRAC(6)=.524
XFRAC(7)= 1. ; XFRAC(8)=0.55
XFRAC(9)= 1. ; XFRAC(10)=.524
*
GROUP4: Y DIRECTION GRID
*
NY = 23
YFRAC(1)=-2. ; YFRAC(2)= 0.562
YFRAC(3)= 1. ; YFRAC(4)= 0.200
YFRAC(5)= 1. ; YFRAC(6)= 0.421
YFRAC(7)= 1. ; YFRAC(8)= 0.365
YFRAC(9)= 1. ; YFRAC(10) = 0.300
YFRAC(11)=3. ; YFRAC(12) = .333
YFRAC(13)=1. ; YFRAC(14) = .360
YFRAC(15)=1. ; YFRAC(16) = 0.500
YFRAC(17)=3. ; YFRAC(18) = .608
YFRAC(19)=1. ; YFRAC(20) = 0.305
YFRAC(21)=3. ; YFRAC(22) = 0.530
YFRAC(23)=1. ; YFRAC(24) = 1.69
YFRAC(25)=1. ; YFRAC(26) = 1.82
YFRAC(27)=1. ; YFRAC(28) = 2.14
YFRAC(29)=1. ; YFRAC(30) = 3.66
YFRAC(31)=1. ; YFRAC(32) = 1.833
*
GROUP5: Z DIRECTION GRID
*
NZ = 47
ZFRAC(1) = -1. ; ZFRAC(2) = 0.965
ZFRAC(3) = 2. ; ZFRAC(4) = 0.813
ZFRAC(5) = 3. ; ZFRAC(6) = 1.22
ZFRAC(7) = 2. ; ZFRAC(8)= 0.610
ZFRAC(9) = 2. ; ZFRAC(10)= 1.32
ZFRAC(11)= 1. ; ZFRAC(12)= 1.05
ZFRAC(13)= 1. ; ZFRAC(14)= 0.84
ZFRAC(15)= 1. ; ZFRAC(16)= 0.842
ZFRAC(17)= 1. ; ZFRAC(18)= 0.762
ZFRAC(19)= 3. ; ZFRAC(20)= .666
ZFRAC(21)= 2. ; ZFRAC(22)= .537
ZFRAC(23)= 4. ; ZFRAC(24)= .134
ZFRAC(25)= 2. ; ZFRAC(26)= 0.268
ZFRAC(27)= 4. ; ZFRAC(28)= 0.381
ZFRAC(29)= 1. ; ZFRAC(30)= 1.176
ZFRAC(31)= 2. ; ZFRAC(32)= 1.024
ZFRAC(33)= 1. ; ZFRAC(34)= 0.838
ZFRAC(35)= 1. ; ZFRAC(36)= .623
ZFRAC(37)= 1. ; ZFRAC(38)= 0.395
ZFRAC(39)= 2. ; ZFRAC(40)= 0.328
ZFRAC(41)= 2. ; ZFRAC(42)= .553

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ZFRAC(43)= 1. ; ZFRAC(44)= 0.317
ZFRAC(45)= 1. ; ZFRAC(46)= 0.353
ZFRAC(47)= 1. ; ZFRAC(48)= 0.613
ZFRAC(49)= 1. ; ZFRAC(50)= .385
ZFRAC(51)= 2. ; ZFRAC(52)= 0.728
ZFRAC(53)= 1. ; ZFRAC(54)= 0.385
ZFRAC(55)= 1. ; ZFRAC(56)= 0.613
    GROUP6: BODY FITTED COORDINATES
    GROUP7: VARIABLE SOLUTION, STORAGE & NAME
    *
SOLVE(P1,H1,U1,V1,W1)
SOLUTN(P1,Y,Y,Y,N,N,N)
SOLUTN(H1,Y,Y,Y,N,N,N)
SOLUTN(U1,Y,Y,N,Y,N,N)
SOLUTN(V1,Y,Y,N,Y,N,N)
SOLUTN(W1,Y,Y,N,Y,N,N)
STORE(RHO1,TMP1)
    *
    GROUP8: TERMS IN EQUATIONS
    GROUP9: PHYSICAL PROPERTIES OF MEDIUM
    *
TAMB = 295.
TJET = 2000.
PJET = 0.
MJET = 175.
HAMB=TAMB*CSUBP
PRESSO = 101325.
RHO1A = 0.
GASCON = 286.
RHO1B = 1./GASCON
RHOJET =((PRESSO + PJET)* RHO1B)/TJET
WJET = MJET/RHOJET
TMP1A = TINY
CSUBP = 1004.
TMP1B = 1./CSUBP
HJET = CSUBP * TJET
TMP1 = GRND2
RHO1 = GRND5
DRH1DP = GRND5
ENUL = 1.E-05
    *
***** TURBULENT MODEL INPUT*****
TURMOD(KEMODL)
STORE(VIST)
KEINA = 0.5 * (0.005*1.0)**2
EPINA = 0.09 * KEINA **1.5/(0.1)
KEINJ=.5*(.005*WJET)**2
EPINJ=.09*KEINJ**1.5/(.05*.5)
    *
    GROUP10: INTERPHASE PROCESSES
    GROUP11: INITIAL VALUES
    *
FIINIT(H1)=CSUBP*TAMB
FIINIT(P1)=0.0
FIINIT(TMP1)=TAMB
FIINIT(DEN1) = 1.0

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```

FIINIT(KE) = KEINA
FIINIT(EP) = EPINA
*
PATCH(WINIT,INIVAL,1,3,2,5,20,24,1,1)
INIT(WINIT,W1,0.0,0.95*WJET)
INIT(WINIT,H1,0.0,CSUBP*0.95*TJET)
INIT(WINIT,KE,0.0,KEINJ*0.95)
INIT(WINIT,EP,0.0,EFINJ*0.95)

PATCH(WINIT1,INIVAL,1,3,2,5,25,26,1,1)
INIT(WINIT1,W1,0.0,0.90*WJET)
INIT(WINIT1,H1,0.0,CSUBP*0.90*TJET)
INIT(WINIT1,KE,0.0,KEINJ*0.90)
INIT(WINIT1,EP,0.0,EPINJ*0.90)
*
PATCH(WINIT2,INIVAL,1,3,2,5,27,28,1,1)
INIT(WINIT2,W1,0.0,0.75*WJET)
INIT(WINIT2,H1,0.0,CSUBP*0.75*TJET)
INIT(WINIT2,KE,0.0,KEINJ*0.75)
INIT(WINIT2,EP,0.0,EPINJ*0.75)

PATCH(WINIT3,INIVAL,1,3,2,5,28,29,1,1)
INIT(WINIT3,W1,0.0,0.7*WJET)
INIT(WINIT3,H1,0.0,CSUBP*0.7*TJET)
INIT(WINIT3,KE,0.0,KEINJ*0.7)
INIT(WINIT3,EP,0.0,EPINJ*0.7)

PATCH(WINIT6,INIVAL,1,3,2,5,30,34,1,1)
INIT(WINIT6,W1,0.0,0.5*WJET)
INIT(WINIT6,H1,0.0,CSUBP*0.5*TJET)
INIT(WINIT6,KE,0.0,KEINJ*0.5)
INIT(WINIT6,EP,0.0,EPINJ*0.5)

PATCH(WINIT4,INIVAL,1,3,2,5,35,42,1,1)
INIT(WINIT4,W1,0.0,0.4*WJET)
INIT(WINIT4,H1,0.0,CSUBP*0.4*TJET)
INIT(WINIT4,KE,0.0,KEINJ*0.4)
INIT(WINIT4,EP,0.0,EPINJ*0.4)

PATCH(WINIT5,INIVAL,1,3,2,5,42,47,1,1)
INIT(WINIT5,W1,0.0,0.2*WJET)
INIT(WINIT5,H1,0.0,CSUBP*0.3*TJET)
INIT(WINIT5,KE,0.0,KEINJ*0.3)
INIT(WINIT5,EP,0.0,EPINJ*0.3)
*** INSURE THAT RESTART VARIABLES MATCH THOSE CURRENTLY STORED ***
*** IN THE DF09 FILE...
*
GROUP12: ADJUSTMENT TO FLUXES
GROUP13: BOUNDARY CONDITIONS
*
*
***** ESTABLISHMENT OF PHYSICAL DIMENSIONS *****

```

****BACKWALL****

CONPOR(0.0,EAST,-8,-8,1,18,1,11)
CONPOR(0.0,EAST,-8,-8,1,16,12,13)
CONPOR(0.0,EAST,-8,-8,1,14,14,29)
CONPOR(0.0,EAST,-8,-8,1,11,30,33)
CONPOR(0.0,EAST,-8,-8,1,21,34,41)
CONPOR(0.0,EAST,-8,-8,1,22,42,47)

*** TEST CELL DECK ***

*

CONPOR(0.0,SOUTH,1,8,1,-1,1,47)

*

*** TEST CELL FRONT WALL ***

*

CONPOR(0.0,LOW,1,8,1,18,-1,-1)

*

*** PRIMARY INLET TOP ***

*

CONPOR(0.0,NORTH,1,8,-18,-18,1,8)

*

*** PRIMARY INLET DIVIDER ***(2ND)

*

CONPOR(0.0,NORTH,1,8,-14,-14,3,8)

*

*** TEST ROOM OVERHEAD ***(PRIMARY INLET TOP)

*

CONPOR(0.0,NORTH,1,8,-11,-11,4,25)

*

*** PRIMARY/FORWARD SECONDARY INLET DIVIDER ***

*

CONPOR(0.0,HIGH,1,8,12,18,-11,-11)

*

*** FORWARD SECONDARY INLET TOP ***

*

CONPOR(0.0,HIGH,1,8,15,16,-13,-13)

CONPOR(0.0,NORTH,1,8,-15,-15,14,29)

*

*

*

*** FORWARD SECONDARY TURNING BULKHEADS ***

*

CONPOR(0.0,HIGH,1,8,12,15,-29,-29)

CONPOR(0.0,HIGH,1,8,1,2,-25,-25)

CONPOR(0.0,HIGH,4,8,3,5,-25,-25)

CONPOR(0.0,HIGH,1,8,6,11,-25,-25)

CONPOR(0.0,NORTH,1,8,-11,-11,30,33)

*

SECONDARY EXHAUST/LEFT WALL

CONPOR(0.0,HIGH,1,8,10,21,-33,-33)

SECONDARY EXHAUST/RIGHT WALL

CONPOR(0.0,HIGH,1,8,16,22,-41,-41)

*****PRIMARY EXHAUST/FAR WALL

CONPOR(0.0,HIGH,1,8,1,22,-47,-47)

***** ENGINE *****

*

CONPOR(0.0,CELL,1,2,3,5,14,19)

*

PATCH(JETIN,HIGH,1,2,3,5,13,13,1,1)

COVAL(JETIN,P1,FIXFLU,-MJET)

COVAL(JETIN,H1,ONLYMS,SAME)

*

PATCH(JETOUT,LOW,1,2,3,5,20,20,1,1)

COVAL(JETOUT,P1,FIXFLU,MJET)

COVAL(JETOUT,W1,ONLYMS,WJET)

COVAL(JETOUT,H1,ONLYMS,HJET)

COVAL(JETOUT,KE,ONLYMS,KEINJ)

COVAL(JETOUT,EP,ONLYMS,EPINJ)

*

*

*

*

*

***** APPROXIMATION OF THE COANDA SURFACE *****

*

CONPOR(0.0,NORTH,1,3,-5,-5,26,26)

CONPOR(0.0,NORTH,1,3,-5,-5,28,28)

CONPOR(0.0,NORTH,1,3,-5,-5,30,35)

CONPOR(0.0,NORTH,1,3,-2,-2,26,26)

CONPOR(0.0,NORTH,1,3,-2,-2,28,28)

CONPOR(0.0,NORTH,1,3,-2,-2,30,31)

CONPOR(0.0,EAST,-3,-3,3,5,26,26)

CONPOR(0.0,EAST,-3,-3,3,5,28,28)

CONPOR(0.0,EAST,-3,-3,3,5,30,35)

CONPOR(0.0,NORTH,1,3,-6,-6,36,37)

CONPOR(0.0,EAST,-3,-3,6,6,36,37)

CONPOR(0.0,HIGH,1,3,6,6,-35,-35)

CONPOR(0.0,NORTH,1,3,-8,-8,38,39)

CONPOR(0.0,EAST,-3,-3,7,8,38,39)

CONPOR(0.0,HIGH,1,3,7,8,-37,-37)

CONPOR(0.0,NORTH,1,3,-10,-10,40,40)

CONPOR(0.0,EAST,-3,-3,9,10,40,40)

CONPOR(0.0,HIGH,1,3,9,10,-40,-40)

CONPOR(0.0,NORTH,1,3,-13,-13,41,41)

CONPOR(0.0,EAST,-3,-3,11,13,41,41)

CONPOR(0.0,HIGH,1,3,11,13,-40,-40)

CONPOR(0.0,HIGH,1,3,13,15,-41,-41)

```

*
*** BOUNDARIES TO AMBIENT ***
*
*
PATCH(SKY,NORTH,1,09,23,23,1,47,1,1)
COVAL(SKY,P1,0.1,0.0)
COVAL(SKY,H1,ONLYMS,CSUBP*TAMB)
*
*
PATCH(SKY1,EAST,8,8,1,23,1,47,1,1)
COVAL(SKY1,P1,0.1,0.0)
COVAL(SKY1,H1,ONLYMS,CSUBP*TAMB)
*
*
PATCH(SKYLEFT,LOW,1,9,1,23,1,1,1,1)
COVAL(SKYLEFT,P1,0.1,0.0)
COVAL(SKYLEFT,H1,ONLYMS,CSUBP*TAMB)
    COVAL(SKYLEFT,KE,ONLYMS,KEINA)
    COVAL(SKYLEFT,EP,ONLYMS,EPINA)
*
*
PATCH(SKYRT,HIGH,1,9,1,23,47,47,1,1)
COVAL(SKYRT,P1,0.1,0.0)
COVAL(SKYRT,H1,ONLYMS,CSUBP*TAMB)
*
*
***** BOUNDARIES TO ENGINE *****
GROUP14: DOWNSTREAM PRESSURE
GROUP15: TERMINATION FOR INNER ITERATIONS
*
*
FSWEEP =1; LSWEEP =70
GROUP16: TERMINATION FOR SWEEPS & OUTER ITERATIONS
LITER(P1)=20
LITER(V1)=5
LITER(W1)=5
LITER(U1)=5
LITER(H1)=5
LITER(KE)=5
LITER(EP)=5
*
*
GROUP17: UNDER RELAXATION
REAL(DELT,FACT)
DELT=50.0/(NZ*0.2*WJET)
    FACT=10.0
FACT=2.5
    FACT=3.5
    FACT=5.0
    FACT=1.5
RELAX(P1,LINRLX,.3)
RELAX(U1,FALSDT,FACT*DELT)
RELAX(V1,FALSDT,FACT*DELT)
RELAX(W1,FALSDT,FACT*DELT)
RELAX(H1,FALSDT,.25*FACT*DELT)
RELAX(KE,FALSDT,FACT*DELT)
RELAX(EP,FALSDT,FACT*DELT)
GROUP18: LIMITS ON VARIABLES
*
```

*

```
VARMIN(P1)= -3.5E+05
VARMAX(P1)= 3.5E+05
VARMIN(V1)=-500.
VARMAX(V1)=1000.
VARMIN(W1)=-200.
VARMAX(W1)=1500.
VARMAX(TMP1)=TJET
VARMIN(TMP1)=295.
VARMAX(H1)= CSUBP*TJET
VARMIN(H1)= 1000.
VARMIN(U1)=-300.
VARMAX(U1)=100.
VARMIN(RHO1)=.05
VARMAX(RHO1)=5.
VARMAX(KE)=7.5E+04
VARMIN(KE)=1.E-08
VARMAX(EP)=2.5E+06
VARMIN(EP)=1.E-08
```

GROUP19: SPECIAL CALLS TO GROUND
GROUP20: PRELIMINARY PRINTOUT

ECHO=T

GROUP21: FIELD PRINTOUT

GROUP22: MONITOR PRINTOUT

*

```
IXMON = 2; IYMON = 4 ; IZMON = 12
TSTSWP=1 ; LUPR3=6
ABSIZ=1.0; ORSIZ=1.0
GROUP23: FIELD PRINTOUT & PLOTS
NUMCLS=10*NXPRIN
```

*

```
ITABL=3 ; NPLT=1 ; NZPRIN=1
IPLTL=LSWEEP
      NPRINT=3
*
```

GROUP24: PREPARATION FOR CONTINUATION RUNS
SAVE=T

RESTRT(ALL)

STOP

//

APPENDIX B. COMPUTER OUTPUT

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 4 ITERM NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 4, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF P1

IY= 23	-4.201E-01	-4.201E-01	-4.200E-01	-4.198E-01	-4.195E-01	-4.192E-01	-4.190E-01	-4.177E-01	-4.187E-01
IY= 22	-4.264E-01	-4.262E-01	-4.262E-01	-4.263E-01	-4.264E-01	-4.269E-01	-4.273E-01	-4.270E-01	-4.275E-01
IY= 21	-4.433E-01	-4.432E-01	-4.433E-01	-4.433E-01	-4.433E-01	-4.439E-01	-4.441E-01	-4.438E-01	-4.441E-01
IY= 20	-4.492E-01	-4.491E-01	-4.492E-01	-4.499E-01	-4.507E-01	-4.519E-01	-4.531E-01	-4.537E-01	-4.542E-01
IY= 19	-4.630E-01	-4.631E-01	-4.637E-01	-4.650E-01	-4.670E-01	-4.504E-01	-4.547E-01	-4.610E-01	-4.732E-01
IY= 18	-1.274E+00	-1.275E+00	-1.277E+00	-1.281E+00	-1.286E+00	-1.292E+00	-1.297E+00	-1.286E+00	-6.896E-01
IY= 17	-1.276E+00	-1.278E+00	-1.280E+00	-1.283E+00	-1.288E+00	-1.295E+00	-1.299E+00	-1.289E+00	-6.795E-01
IY= 16	-1.278E+00	-1.280E+00	-1.283E+00	-1.287E+00	-1.292E+00	-1.299E+00	-1.303E+00	-1.292E+00	-6.701E-01
IY= 15	-1.280E+00	-1.281E+00	-1.285E+00	-1.288E+00	-1.294E+00	-1.300E+00	-1.305E+00	-1.294E+00	-6.609E-01
IY= 14	-2.488E+00	-2.492E+00	-2.502E+00	-2.515E+00	-2.530E+00	-2.536E+00	-2.531E+00	-2.462E+00	-6.568E-01
IY= 13	-2.607E+00	-2.619E+00	-2.623E+00	-2.627E+00	-2.630E+00	-2.620E+00	-2.600E+00	-2.522E+00	-6.477E-01
IY= 12	-2.798E+00	-2.800E+00	-2.802E+00	-2.801E+00	-2.795E+00	-2.765E+00	-2.718E+00	-2.623E+00	-6.394E-01
IY= 11	-1.081E+01	-1.086E+01	-1.099E+01	-1.121E+01	-1.151E+01	-1.163E+01	-1.139E+01	-9.892E+00	-6.317E-01
IY= 10	-1.075E+01	-1.079E+01	-1.088E+01	-1.104E+01	-1.124E+01	-1.117E+01	-1.071E+01	-9.211E+00	-6.259E-01
IY= 9	-1.047E+01	-1.049E+01	-1.054E+01	-1.061E+01	-1.067E+01	-1.046E+01	-9.963E+00	-8.629E+00	-6.224E-01
IY= 8	-9.983E+00	-1.000E+01	-1.003E+01	-1.003E+01	-1.002E+01	-9.768E+00	-9.299E+00	-8.156E+00	-6.196E-01
IY= 7	-9.452E+00	-9.451E+00	-9.462E+00	-9.448E+00	-9.402E+00	-9.157E+00	-8.747E+00	-7.778E+00	-6.170E-01
IY= 6	-8.952E+00	-8.952E+00	-8.957E+00	-8.943E+00	-8.896E+00	-8.674E+00	-8.319E+00	-7.492E+00	-6.147E-01
IY= 5	-8.438E+00	-8.458E+00	-8.463E+00	-8.459E+00	-8.427E+00	-8.244E+00	-7.948E+00	-7.246E+00	-6.131E-01
IY= 4	-7.958E+00	-7.958E+00	-7.965E+00	-7.980E+00	-7.976E+00	-7.841E+00	-7.598E+00	-7.008E+00	-6.114E-01
IY= 3	-7.617E+00	-7.634E+00	-7.647E+00	-7.684E+00	-7.708E+00	-7.607E+00	-7.375E+00	-6.856E+00	-6.091E-01
IY= 2	-7.272E+00	-7.284E+00	-7.304E+00	-7.344E+00	-7.389E+00	-7.330E+00	-7.135E+00	-6.689E+00	-6.092E-01
IY= 1	-6.911E+00	-6.917E+00	-6.940E+00	-6.991E+00	-7.068E+00	-7.055E+00	-6.906E+00	-6.560E+00	-6.075E-01
IX=	1	2	3	4	5	6	7	8	9
IY= 23	-2.939E-04	-5.997E-04	-1.336E-03	-2.723E-03	-5.870E-03	-1.086E-02	-1.736E-02	1.685E-02	
IY= 22	7.003E-04	1.373E-03	2.196E-03	2.525E-03	1.391E-03	-3.462E-03	-1.390E-02	1.149E-02	
IY= 21	1.741E-04	4.030E-04	6.804E-04	4.188E-04	-1.955E-03	-8.298E-03	-1.808E-02	1.012E-02	
IY= 20	2.152E-03	4.337E-03	7.534E-03	1.003E-02	1.121E-02	7.850E-03	-5.957E-03	1.262E-02	
IY= 19	8.494E-03	1.693E-02	2.928E-02	4.111E-02	5.584E-02	6.927E-02	7.965E-02	1.185E-01	
IY= 18	3.604E-03	2.598E-03	-6.991E-03	-2.404E-02	-4.951E-02	-7.396E-02	-9.390E-02	1.432E-08	
IY= 17	-1.181E-02	-2.190E-02	-3.690E-02	-5.288E-02	-7.477E-02	-8.958E-02	-9.833E-02	9.817E-16	
IY= 16	-1.734E-02	-3.204E-02	-5.233E-02	-6.910E-02	-8.615E-02	-9.628E-02	-1.007E-01	-5.656E-21	
IY= 15	-2.675E-02	-5.120E-02	-7.387E-02	-8.298E-02	-8.723E-02	-9.076E-02	-9.711E-02	-3.306E-21	
IY= 14	-5.151E-02	-1.050E-01	-1.796E-01	-2.411E-01	-2.925E-01	-2.969E-01	-2.565E-01	0.000E+00	
IY= 13	-3.964E-02	-7.316E-02	-1.239E-01	-1.752E-01	-2.378E-01	-2.670E-01	-2.483E-01	8.078E-26	
IY= 12	-1.291E-02	-2.941E-02	-5.787E-02	-9.197E-02	-1.474E-01	-2.014E-01	-2.276E-01	8.078E-26	
IY= 11	-1.300E-01	-2.983E-01	-5.633E-01	-8.199E-01	-1.085E+00	-1.205E+00	-1.126E+00	6.462E-26	
IY= 10	-9.175E-02	-2.182E-01	-4.835E-02	-7.580E-01	-1.065E+00	-1.207E+00	-1.101E+00	4.524E-26	
IY= 9	-1.214E-01	-2.640E-01	-5.220E-01	-7.816E-01	-1.061E+00	-1.168E+00	-1.035E+00	4.201E-26	
IY= 8	-1.425E-01	-2.972E-01	-5.476E-01	-7.888E-01	-1.032E+00	-1.100E+00	-9.514E-01	4.201E-26	
IY= 7	-1.491E-01	-3.039E-01	-5.452E-01	-7.652E-01	-9.729E-01	-1.011E+00	-8.613E-01	4.201E-26	
IY= 6	-1.449E-01	-2.934E-01	-5.187E-01	-7.179E-01	-8.965E-01	-9.155E-01	-7.750E-01	3.877E-26	
IY= 5	-1.287E-01	-2.589E-01	-4.566E-01	-6.313E-01	-7.867E-01	-8.021E-01	-6.909E-01	4.847E-26	
IY= 4	-9.793E-02	-1.972E-01	-3.532E-01	-5.008E-01	-6.435E-01	-6.733E-01	-6.052E-01	5.493E-26	
IY= 3	-8.034E-02	-1.585E-01	-2.840E-01	-4.112E-01	-5.394E-01	-5.640E-01	-5.252E-01	2.585E-26	
IY= 2	-2.689E-02	-5.390E-02	-9.916E-02	-1.650E-01	-2.945E-01	-4.205E-01	-4.760E-01	7.432E-26	
IY= 1	2.288E-02	4.643E-02	9.141E-02	1.394E-01	1.496E-01	-3.146E-02	-3.838E-01	7.432E-26	
IX=	1	2	3	4	5	6	7	8	
IY= 22	-1.338E-01	-1.330E-01	-1.310E-01	-1.269E-01	-1.197E-01	-1.065E-01	-8.354E-02	-3.685E-02	-9.372E-02
IY= 21	-2.026E-01	-2.015E-01	-1.986E-01	-1.924E-01	-1.818E-01	-1.641E-01	-1.331E-01	-6.299E-02	-1.509E-01
IY= 20	-1.956E-01	-1.945E-01	-1.919E-01	-1.870E-01	-1.788E-01	-1.646E-01	-1.299E-01	-5.882E-02	-1.583E-01
IY= 19	-1.354E-01	-1.347E-01	-1.330E-01	-1.306E-01	-1.273E-01	-1.238E-01	-1.155E-01	-7.186E-02	-1.446E-01
IY= 18	-1.466E-11	-2.863E-11	-6.921E-11	-7.510E-11	-1.032E-10	-1.041E-10	-9.624E-11	-4.672E-11	-4.501E-01
IY= 17	2.766E-02	1.839E-02	7.612E-03	-2.047E-03	-6.278E-03	-8.573E-03	-1.020E-02	-9.397E-03	-4.271E-01
IY= 16	2.528E-02	1.909E-02	7.652E-03	-4.783E-03	-1.172E-02	-1.254E-02	-1.153E-02	-1.220E-02	-4.046E-01

IY=	15	1.578E-02	1.420E-02	3.928E-03	-5.609E-03	-9.239E-03	-7.513E-03	-3.908E-03	-5.090E-03	-3.820E-01
IY=	14	-2.415E-12	-2.671E-12	-1.467E-11	-2.884E-11	-3.540E-11	-1.881E-11	-9.146E-12	-1.140E-11	-3.689E-01
IY=	13	-1.691E-01	-1.743E-01	-1.679E-01	-1.532E-01	-1.265E-01	-9.012E-02	-6.409E-02	-6.441E-02	-3.415E-01
IY=	12	-2.321E-01	-2.245E-01	-2.195E-01	-2.097E-01	-1.874E-01	-1.440E-01	-1.059E-01	-1.067E-01	-3.123E-01
IY=	11	-1.347E-08	-1.362E-08	-2.098E-08	-2.206E-08	-3.350E-08	-1.507E-07	-3.313E-07	-3.682E-07	-2.809E-01
IY=	10	-4.669E-02	-6.300E-02	-7.136E-02	-8.759E-02	-8.496E-02	-7.664E-02	-3.809E-02	-4.107E-02	-2.534E-01
IY=	9	-8.987E-02	-1.271E-01	-1.825E-01	-2.200E-01	-2.795E-01	-1.958E-01	-6.985E-02	-7.837E-02	-2.526E-01
IY=	8	-2.023E-01	-2.438E-01	-3.097E-01	-3.487E-01	-3.346E-01	-2.456E-01	-6.876E-02	-1.250E-01	-2.124E-01
IY=	7	-3.368E-01	-3.737E-01	-4.295E-01	-4.561E-01	-4.169E-01	-2.753E-01	-3.798E-02	-1.728E-01	-1.913E-01
IY=	6	-4.608E-01	-4.881E-01	-5.273E-01	-5.365E-01	-4.661E-01	-2.719E-01	1.567E-02	2.128E-01	-1.694E-01
IY=	5	-5.505E-01	-5.697E-01	-5.951E-01	-5.847E-01	-4.846E-01	-2.462E-01	7.124E-02	2.366E-01	-1.490E-01
IY=	4	-6.121E-01	-6.241E-01	-6.377E-01	-6.082E-01	-4.784E-01	-1.971E-01	1.425E-01	2.492E-01	-1.235E-01
IY=	3	-6.052E-01	-6.131E-01	-6.238E-01	-5.891E-01	-4.434E-01	-1.305E-01	2.190E-01	2.407E-01	-9.349E-02
IY=	2	-5.829E-01	-5.868E-01	-5.978E-01	-5.656E-01	-4.158E-01	-8.840E-02	2.527E-01	2.204E-01	-7.896E-02
IY=	1	-3.616E-01	-3.635E-01	-3.775E-01	-3.785E-01	-3.063E-01	-4.861E-02	2.786E-01	1.452E-01	-3.888E-02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										
IY=	23	-7.394E-02	-7.117E-02	-6.361E-02	-4.834E-02	-2.547E-02	1.369E-03	1.998E-02	1.834E-02	1.356E-09
IY=	22	-2.679E-03	-1.233E-03	3.157E-03	1.229E-02	2.594E-02	4.104E-02	4.883E-02	3.686E-02	5.574E-02
IY=	21	6.423E-02	6.514E-02	6.806E-02	7.414E-02	8.293E-02	9.159E-02	9.119E-02	6.407E-02	9.889E-02
IY=	20	1.159E-01	1.164E-01	1.186E-01	1.233E-01	1.304E-01	1.378E-01	1.368E-01	9.003E-02	1.403E-01
IY=	19	1.324E-01	1.328E-01	1.351E-01	1.392E-01	1.466E-01	1.542E-01	1.612E-01	1.299E-01	1.530E-01
IY=	18	-2.932E-01	-2.881E-01	-2.789E-01	-2.642E-01	-2.424E-01	-2.051E-01	-1.553E-01	-8.838E-02	1.810E-01
IY=	17	-3.485E-01	-3.470E-01	-3.453E-01	-3.419E-01	-3.299E-01	-2.883E-01	-2.133E-01	-1.114E-01	2.055E-01
IY=	16	-4.007E-01	-4.035E-01	-4.086E-01	-4.147E-01	-4.128E-01	-3.782E-01	-2.872E-01	-1.435E-01	2.268E-01
IY=	15	-4.438E-01	-4.593E-01	-4.706E-01	-4.834E-01	-4.866E-01	-4.569E-01	-3.523E-01	-1.636E-01	2.579E-01
IY=	14	-1.449E+00	-1.494E+00	-1.485E+00	-1.451E+00	-1.583E+00	-1.253E+00	-9.789E+00	-5.668E+00	2.568E+00
IY=	13	-1.673E+00	-1.671E+00	-1.665E+00	-1.647E+00	-1.600E+00	-1.464E+00	-1.176E+00	-6.551E+00	2.717E+00
IY=	12	-1.844E+00	-1.843E+00	-1.843E+00	-1.834E+00	-1.809E+00	-1.711E+00	-1.409E+00	-7.308E+00	2.821E+00
IY=	11	-1.261E+00	3.405E-02	1.089E+01	1.679E+01	2.033E+01	3.121E+01	3.952E+01	3.477E+01	2.870E+01
IY=	10	4.640E-01	5.895E-01	7.760E-01	9.493E-01	1.095E+00	1.211E+00	1.179E+00	8.153E+00	2.881E+00
IY=	9	9.383E-01	1.058E+00	1.277E+00	1.505E+00	1.678E+00	1.766E+00	1.605E+00	1.038E+00	2.870E+00
IY=	8	1.405E+00	1.516E+00	1.725E+00	1.944E+00	2.083E+00	2.098E+00	1.831E+00	1.131E+00	2.836E+00
IY=	7	1.807E+00	1.903E+00	2.085E+00	2.259E+00	2.355E+00	2.303E+00	1.946E+00	1.157E+00	2.777E+00
IY=	6	2.111E+00	2.192E+00	2.335E+00	2.475E+00	2.535E+00	2.429E+00	2.003E+00	1.151E+00	2.701E+00
IY=	5	2.400E+00	2.455E+00	2.561E+00	2.661E+00	2.680E+00	2.514E+00	2.027E+00	1.134E+00	2.584E+00
IY=	4	2.646E+00	2.680E+00	2.747E+00	2.812E+00	2.793E+00	2.577E+00	2.041E+00	1.117E+00	2.418E+00
IY=	3	2.764E+00	2.790E+00	2.842E+00	2.891E+00	2.862E+00	2.636E+00	2.066E+00	1.106E+00	2.309E+00
IY=	2	2.938E+00	2.950E+00	2.970E+00	2.991E+00	2.943E+00	2.673E+00	2.069E+00	1.103E+00	2.049E+00
IY=	1	3.031E+00	3.034E+00	3.039E+00	3.044E+00	3.028E+00	2.860E+00	2.137E+00	1.102E+00	1.754E+00
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IY=	23	2.971E-02	2.907E-02	2.747E-02	2.419E-02	1.897E-02	1.195E-02	5.405E-03	1.068E-03	5.170E-04
IY=	22	1.935E-02	1.887E-02	1.774E-02	1.544E-02	1.171E-02	6.742E-03	2.077E-03	7.041E-05	1.584E-03
IY=	21	9.714E-03	9.566E-03	8.552E-03	7.068E-03	5.048E-03	2.608E-03	6.142E-04	5.823E-05	2.048E-03
IY=	20	4.448E-03	4.279E-03	3.877E-03	3.167E-03	2.157E-03	9.780E-04	2.150E-04	3.794E-05	2.178E-03
IY=	19	1.521E-04	1.535E-04	1.611E-04	1.751E-04	1.981E-04	2.282E-04	2.564E-04	2.209E-04	2.169E-03
IY=	18	8.025E-04	7.784E-04	7.367E-04	6.692E-04	5.841E-04	4.592E-04	3.259E-04	1.077E-04	1.903E-03
IY=	17	2.160E-02	1.989E-02	1.805E-02	1.565E-02	1.192E-02	5.953E-03	1.777E-03	1.445E-04	1.827E-03
IY=	16	1.918E-02	1.837E-02	1.783E-02	1.668E-02	1.396E-02	8.993E-03	3.686E-03	2.248E-04	1.758E-03
IY=	15	1.903E-03	2.029E-03	2.138E-03	2.260E-03	2.292E-03	2.064E-03	1.337E-03	3.160E-04	1.693E-03
IY=	14	1.473E-02	1.468E-02	1.459E-02	1.415E-02	1.315E-02	1.087E-02	7.294E-03	2.628E-03	1.651E-03
IY=	13	1.103E-01	1.114E-01	1.107E-01	1.087E-01	1.032E-01	8.511E-02	5.166E-02	3.415E-03	1.563E-03
IY=	12	2.144E-02	2.146E-02	2.143E-02	2.127E-02	2.079E-02	1.891E-02	1.343E-02	4.109E-03	1.461E-03
IY=	11	3.458E-04	4.757E-04	1.709E-03	3.979E-03	7.060E-03	1.001E-02	1.069E-02	2.288E-03	1.353E-03
IY=	10	1.305E-01	1.020E-01	9.115E-02	7.726E-02	6.171E-02	3.963E-02	1.970E-02	5.012E-03	1.260E-03
IY=	9	1.538E-01	1.264E-01	1.124E-01	9.470E-02	7.244E-02	4.335E-02	2.178E-02	7.782E-03	1.179E-03
IY=	8	1.611E-01	1.376E-01	1.219E-01	1.026E-01	7.641E-02	4.392E-02	2.300E-02	9.147E-03	1.093E-03
IY=	7	1.622E-01	1.440E-01	1.288E-01	1.073E-01	7.763E-02	4.318E-02	2.363E-02	9.621E-03	9.999E-04
IY=	6	1.619E-01	1.477E-01	1.330E-01	1.093E-01	7.687E-02	4.169E-02	2.372E-02	9.615E-03	9.072E-04
IY=	5	1.586E-01	1.483E-01	1.348E-01	1.086E-01	7.359E-02	3.863E-02	2.259E-02	9.424E-03	7.996E-04
IY=	4	1.515E-01	1.447E-01	1.329E-01	1.046E-01	6.740E-02	3.346E-02	2.003E-02	9.194E-03	6.723E-04
IY=	3	1.480E-01	1.425E-01	1.317E-01	1.026E-01	6.386E-02	3.026E-02	1.839E-02	8.994E-03	5.909E-04
IY=	2	1.387E-01	1.356E-01	1.277E-01	1.018E-01	5.682E-02	2.238E-02	1.785E-02	8.828E-03	4.566E-04
IY=	1	5.378E-02	5.388E-02	5.406E-02	5.427E-02	5.380E-02	4.840E-02	2.869E-02	8.762E-03	3.370E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IY=	23	1.330E-03	1.292E-03	1.198E-03	1.011E-03	7.313E-04	3.931E-04	1.358E-04	1.474E-05	1.369E-05

IV= 22	6.844E-04	6.620E-04	6.103E-04	5.084E-04	3.503E-04	1.673E-04	4.168E-05	8.364E-07	4.658E-05
IV= 21	3.946E-04	2.834E-04	2.579E-04	2.094E-04	1.383E-04	6.013E-05	1.157E-05	8.793E-07	8.037E-05
IV= 20	1.286E-04	1.233E-04	1.110E-04	8.847E-05	5.584E-05	2.152E-05	4.129E-06	6.456E-07	9.274E-05
IV= 19	8.386E-07	8.500E-07	9.140E-07	1.035E-06	1.246E-06	1.541E-06	1.835E-06	1.467E-06	1.820E-04
IV= 18	3.246E-05	3.095E-05	2.828E-05	2.468E-05	2.012E-05	1.403E-05	8.384E-06	1.563E-06	1.197E-04
IV= 17	1.438E-03	1.232E-03	1.077E-03	9.048E-04	6.544E-04	3.211E-04	8.979E-05	2.386E-06	1.126E-04
IV= 16	1.247E-03	1.160E-03	1.117E-03	1.036E-03	8.456E-04	5.508E-04	2.234E-04	4.628E-06	1.063E-04
IV= 15	2.055E-04	2.263E-04	2.449E-04	2.660E-04	2.717E-04	2.332E-04	1.211E-04	1.081E-05	1.004E-04
IV= 14	2.221E-03	2.209E-03	2.189E-03	2.092E-03	1.874E-03	1.408E-03	7.740E-04	1.762E-04	9.670E-05
IV= 13	1.458E-02	1.484E-02	1.470E-02	1.442E-02	1.384E-02	1.202E-02	8.010E-03	2.741E-04	8.907E-05
IV= 12	3.901E-03	3.906E-03	3.898E-03	3.855E-03	3.725E-03	3.230E-03	1.934E-03	3.444E-04	8.050E-05
IV= 11	9.716E-06	1.567E-05	1.067E-04	3.792E-04	8.963E-04	1.513E-03	1.670E-03	1.578E-04	7.172E-05
IV= 10	3.763E-02	2.706E-02	2.663E-02	2.331E-02	1.896E-02	1.229E-02	5.613E-03	4.873E-04	6.451E-05
IV= 9	4.289E-02	3.289E-02	3.136E-02	2.760E-02	2.170E-02	1.300E-02	5.813E-03	9.428E-04	5.837E-05
IV= 8	4.371E-02	3.534E-02	3.311E-02	2.927E-02	2.242E-02	1.275E-02	5.874E-03	1.201E-03	5.210E-05
IV= 7	4.277E-02	3.665E-02	3.449E-02	3.021E-02	2.239E-02	1.218E-02	5.862E-03	1.296E-03	4.558E-05
IV= 6	4.193E-02	3.740E-02	3.534E-02	3.048E-02	2.185E-02	1.149E-02	5.794E-03	1.295E-03	3.939E-05
IV= 5	4.042E-02	3.742E-02	3.552E-02	2.995E-02	2.060E-02	1.040E-02	5.435E-03	1.257E-03	3.260E-05
IV= 4	3.830E-02	3.656E-02	3.481E-02	2.860E-02	1.861E-02	8.782E-03	4.699E-03	1.211E-03	2.513E-05
IV= 3	3.750E-02	3.620E-02	3.452E-02	2.800E-02	1.751E-02	7.840E-03	4.253E-03	1.171E-03	2.070E-05
IV= 2	3.686E-02	3.615E-02	3.478E-02	2.829E-02	1.561E-02	5.572E-03	3.976E-03	1.139E-03	1.406E-05
IV= 1	1.676E-02	1.681E-02	1.689E-02	1.700E-02	1.677E-02	1.431E-02	6.531E-03	1.115E-03	8.918E-06
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1									
IV= 23	2.962E+05								
IV= 22	2.962E+05								
IV= 21	2.962E+05								
IV= 20	2.962E+05								
IV= 19	2.962E+05								
IV= 18	2.962E+05								
IV= 17	2.962E+05								
IV= 16	2.962E+05								
IV= 15	2.962E+05								
IV= 14	2.962E+05								
IV= 13	2.962E+05								
IV= 12	2.962E+05								
IV= 11	2.962E+05								
IV= 10	2.962E+05								
IV= 9	2.962E+05								
IV= 8	2.962E+05								
IV= 7	2.962E+05								
IV= 6	2.962E+05								
IV= 5	2.962E+05								
IV= 4	2.962E+05								
IV= 3	2.962E+05								
IV= 2	2.962E+05								
IV= 1	2.962E+05								
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST									
IV= 23	5.972E-02	5.886E-02	5.670E-02	5.209E-02	4.430E-02	3.267E-02	1.935E-02	6.959E-03	1.758E-03
IV= 22	4.942E-02	4.842E-02	4.639E-02	4.218E-02	3.520E-02	2.445E-02	9.317E-03	5.335E-04	3.702E-03
IV= 21	2.883E-02	2.786E-02	2.553E-02	2.147E-02	1.658E-02	1.018E-02	2.935E-03	3.470E-04	4.697E-03
IV= 20	1.385E-02	1.336E-02	1.220E-02	1.021E-02	7.498E-03	4.000E-03	1.008E-03	2.007E-04	4.605E-03
IV= 19	2.483E-03	2.495E-03	2.556E-03	2.664E-03	2.834E-03	3.042E-03	3.224E-03	2.993E-03	2.326E-03
IV= 18	1.790E-03	1.762E-03	1.712E-03	1.634E-03	1.526E-03	1.353E-03	1.140E-03	6.674E-04	2.724E-03
IV= 17	2.984E-02	2.890E-02	2.723E-02	2.436E-02	1.953E-02	9.933E-03	3.167E-03	7.878E-04	2.669E-03
IV= 16	2.656E-02	2.618E-02	2.561E-02	2.416E-02	2.074E-02	1.321E-02	5.474E-03	9.824E-04	2.618E-03
IV= 15	1.585E-03	1.637E-03	1.680E-03	1.727E-03	1.740E-03	1.651E-03	1.329E-03	8.311E-04	2.569E-03
IV= 14	8.791E-03	8.776E-03	8.750E-03	8.618E-03	8.308E-03	7.553E-03	6.187E-03	3.528E-03	2.537E-03
IV= 13	7.509E-02	7.531E-02	7.507E-02	7.368E-02	6.934E-02	5.424E-02	2.999E-02	3.829E-03	2.468E-03
IV= 12	1.061E-02	1.061E-02	1.057E-02	1.057E-02	1.045E-02	9.961E-03	8.396E-03	4.411E-03	2.386E-03
IV= 11	1.108E-03	1.299E-03	2.463E-03	3.750E-03	5.006E-03	5.960E-03	6.159E-03	2.985E-03	2.296E-03
IV= 10	4.070E-02	3.458E-02	2.808E-02	2.305E-02	1.808E-02	1.150E-02	6.220E-03	4.639E-03	2.216E-03
IV= 9	4.962E-02	4.373E-02	3.625E-02	2.924E-02	2.177E-02	1.301E-02	7.346E-03	5.781E-03	2.144E-03
IV= 8	5.343E-02	4.823E-02	4.039E-02	3.238E-02	2.344E-02	1.361E-02	8.102E-03	6.267E-03	2.064E-03
IV= 7	5.536E-02	5.094E-02	4.326E-02	3.433E-02	2.423E-02	1.378E-02	8.575E-03	6.428E-03	1.974E-03
IV= 6	5.626E-02	5.250E-02	4.506E-02	3.531E-02	2.434E-02	1.362E-02	8.740E-03	6.426E-03	1.880E-03
IV= 5	5.601E-02	5.289E-02	4.608E-02	3.542E-02	2.366E-02	1.387E-02	8.119E-03	6.332E-03	1.761E-03

IV=	4	5.302E-02	5.153E-02	4.570E-02	3.442E-02	2.197E-02	1.148E-02	7.680E-03	6.284E-03	1.619E-03
IV=	3	5.254E-02	5.048E-02	4.524E-02	3.384E-02	2.096E-02	1.052E-02	7.160E-03	6.215E-03	1.518E-03
IV=	2	4.701E-02	4.575E-02	4.220E-02	3.296E-02	1.862E-02	8.090E-03	7.200E-03	6.157E-03	1.334E-03
IV=	1	1.553E-02	1.554E-02	1.557E-02	1.560E-02	1.553E-02	1.473E-02	1.134E-02	6.200E-03	1.146E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1										
IV=	23	2.950E+02								
IV=	22	2.950E+02								
IV=	21	2.950E+02								
IV=	20	2.950E+02								
IV=	19	2.950E+02								
IV=	18	2.950E+02								
IV=	17	2.950E+02								
IV=	16	2.950E+02								
IV=	15	2.950E+02								
IV=	14	2.950E+02								
IV=	13	2.950E+02								
IV=	12	2.950E+02								
IV=	11	2.950E+02								
IV=	10	2.950E+02								
IV=	9	2.950E+02								
IV=	8	2.950E+02								
IV=	7	2.950E+02								
IV=	6	2.950E+02								
IV=	5	2.950E+02								
IV=	4	2.950E+02								
IV=	3	2.950E+02								
IV=	2	2.950E+02								
IV=	1	2.950E+02								
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1										
IV=	23	1.201E+00								
IV=	22	1.201E+00								
IV=	21	1.201E+00								
IV=	20	1.201E+00								
IV=	19	1.201E+00								
IV=	18	1.201E+00								
IV=	17	1.201E+00								
IV=	16	1.201E+00								
IV=	15	1.201E+00								
IV=	14	1.201E+00								
IV=	13	1.201E+00								
IV=	12	1.201E+00								
IV=	11	1.201E+00								
IV=	10	1.201E+00								
IV=	9	1.201E+00								
IV=	8	1.201E+00								
IV=	7	1.201E+00								
IV=	6	1.201E+00								
IV=	5	1.201E+00								
IV=	4	1.201E+00								
IV=	3	1.201E+00								
IV=	2	1.201E+00								
IV=	1	1.201E+00								
IX=	1	2	3	4	5	6	7	8	9	

TIME STP= 1 SWEEP NO= 70 ZGLAB NO= 10 ITERN NO= 1

FLOW FIELD AT ITMHD= 1, 12= 10, ISWEEP= 70, ISTEP= 1										
FIELD VALUES OF P1										
IV=	23	-5.101E-01	-5.064E-01	-5.064E-01	-5.065E-01	-5.069E-01	-5.079E-01	-5.089E-01	-4.970E-01	-5.056E-01
IV=	22	-5.042E-01	-4.977E-01	-4.985E-01	-5.003E-01	-5.030E-01	-5.060E-01	-5.085E-01	-4.967E-01	-5.044E-01
IV=	21	-5.773E-01	-5.734E-01	-5.728E-01	-5.744E-01	-5.753E-01	-5.761E-01	-5.765E-01	-5.614E-01	-5.711E-01
IV=	20	-6.564E-01	-6.541E-01	-6.544E-01	-6.549E-01	-6.555E-01	-6.559E-01	-6.599E-01	-6.511E-01	-6.744E-01
IV=	19	-7.608E-01	-7.585E-01	-7.587E-01	-7.587E-01	-7.582E-01	-7.571E-01	-7.562E-01	-7.466E-01	-7.645E-01
IV=	18	-8.315E-01	-8.296E-01	-8.276E-01	-8.232E-01	-8.158E-01	-8.036E-01	-7.867E-01	-7.539E-01	-9.339E-01

IV= 17	-8.238E-01	-8.234E-01	-8.314E-01	-8.273E-01	-8.209E-01	-8.110E-01	-7.986E-01	-7.797E-01	-9.321E-01
IV= 16	-8.164E-01	-8.175E-01	-8.159E-01	-8.131E-01	-8.090E-01	-8.028E-01	-7.946E-01	-7.801E-01	-9.162E-01
IV= 15	-7.851E-01	-7.870E-01	-7.860E-01	-7.846E-01	-7.827E-01	-7.791E-01	-7.711E-01	-7.568E-01	-8.950E-01
IV= 14	-7.509E-01	-7.533E-01	-7.533E-01	-7.540E-01	-7.558E-01	-7.587E-01	-7.577E-01	-7.453E-01	-8.884E-01
IV= 13	-6.708E-01	-6.715E-01	-6.734E-01	-6.773E-01	-6.842E-01	-6.958E-01	-7.074E-01	-7.017E-01	-8.692E-01
IV= 12	-5.713E-01	-5.727E-01	-5.767E-01	-5.854E-01	-6.004E-01	-6.259E-01	-6.565E-01	-6.711E-01	-8.522E-01
IV= 11	-2.074E+01	-2.079E+01	-2.093E+01	-2.095E+01	-2.098E+01	-2.087E+01	-2.073E+01	-1.795E+01	-8.367E+01
IV= 10	-2.088E+01	-2.095E+01	-2.109E+01	-2.113E+01	-2.113E+01	-2.099E+01	-2.083E+01	-1.801E+01	-8.253E+01
IV= 9	-2.110E+01	-2.120E+01	-2.134E+01	-2.136E+01	-2.133E+01	-2.114E+01	-2.095E+01	-1.809E+01	-8.182E+01
IV= 8	-2.146E+01	-2.152E+01	-2.167E+01	-2.166E+01	-2.157E+01	-2.133E+01	-2.110E+01	-1.818E+01	-8.122E+01
IV= 7	-2.187E+01	-2.194E+01	-2.208E+01	-2.200E+01	-2.184E+01	-2.153E+01	-2.126E+01	-1.829E+01	-8.066E+01
IV= 6	-2.230E+01	-2.237E+01	-2.246E+01	-2.234E+01	-2.210E+01	-2.172E+01	-2.141E+01	-1.839E+01	-8.015E+01
IV= 5	-2.275E+01	-2.281E+01	-2.288E+01	-2.268E+01	-2.236E+01	-2.191E+01	-2.156E+01	-1.849E+01	-7.972E+01
IV= 4	-2.324E+01	-2.328E+01	-2.329E+01	-2.303E+01	-2.262E+01	-2.210E+01	-2.171E+01	-1.859E+01	-7.926E+01
IV= 3	-2.355E+01	-2.357E+01	-2.352E+01	-2.320E+01	-2.274E+01	-2.219E+01	-2.179E+01	-1.865E+01	-7.885E+01
IV= 2	-2.386E+01	-2.383E+01	-2.375E+01	-2.356E+01	-2.286E+01	-2.228E+01	-2.187E+01	-1.871E+01	-7.865E+01
IV= 1	-2.405E+01	-2.399E+01	-2.382E+01	-2.338E+01	-2.287E+01	-2.231E+01	-2.191E+01	-1.874E+01	-7.832E+01
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF U1									
IV= 23	4.205E-03	8.008E-03	1.232E-02	1.409E-02	1.186E-02	4.496E-03	-7.223E-03	1.878E-02	
IV= 22	7.685E-03	1.483E-02	2.369E-02	2.894E-02	2.881E-02	2.030E-02	4.601E-03	2.439E-02	
IV= 21	4.663E-03	8.916E-03	1.384E-02	1.600E-02	1.551E-02	4.650E-03	-9.409E-03	1.981E-02	
IV= 20	2.900E-03	5.490E-03	8.203E-03	8.692E-03	5.066E-03	-3.690E-03	-1.689E-03	2.034E-02	
IV= 19	3.493E-03	6.605E-03	1.008E-02	1.129E-02	8.725E-03	1.805E-03	-7.402E-03	4.105E-02	
IV= 18	1.664E-03	2.829E-03	3.234E-03	1.094E-03	-7.169E-03	-2.283E-02	-4.686E-02	-5.767E-09	
IV= 17	-7.298E-04	-1.752E-03	-4.513E-03	-9.688E-03	-2.168E-02	-4.020E-02	-6.163E-02	-5.059E-15	
IV= 16	-2.813E-03	-5.689E-03	-1.083E-02	-1.792E-02	-3.178E-02	-5.086E-02	-6.975E-02	1.964E-20	
IV= 15	-3.651E-03	-7.234E-03	-1.325E-02	-2.104E-02	-3.597E-02	-5.662E-02	-7.424E-02	2.984E-21	
IV= 14	-3.689E-03	-7.148E-03	-1.260E-02	-1.956E-02	-3.349E-02	-5.524E-02	-7.638E-02	6.405E-21	
IV= 13	3.818E-04	4.735E-04	3.774E-04	-8.086E-04	-6.656E-03	-2.317E-02	-5.549E-02	1.523E-12	
IV= 12	1.490E-02	2.920E-02	4.908E-02	6.770E-02	9.064E-02	1.094E-01	9.882E-02	3.699E-10	
IV= 11	-2.486E-01	-4.710E-01	-7.669E-01	-1.001E+00	-1.236E+00	-1.385E+00	-1.468E+00	1.875E-17	
IV= 10	-2.981E-01	-5.578E-01	-8.689E-01	-1.090E+00	-1.292E+00	-1.413E+00	-1.479E+00	5.170E-26	
IV= 9	-3.228E-01	-5.998E-01	-9.246E-01	-1.144E+00	-1.332E+00	-1.434E+00	-1.490E+00	4.524E-26	
IV= 8	-3.453E-01	-6.367E-01	-9.732E-01	-1.192E+00	-1.369E+00	-1.457E+00	-1.502E+00	4.524E-26	
IV= 7	-3.662E-01	-6.721E-01	-1.019E+00	-1.238E+00	-1.405E+00	-1.479E+00	-1.515E+00	4.524E-26	
IV= 6	-3.837E-01	-7.016E-01	-1.057E+00	-1.275E+00	-1.434E+00	-1.498E+00	-1.526E+00	4.201E-26	
IV= 5	-3.941E-01	-7.214E-01	-1.085E+00	-1.304E+00	-1.457E+00	-1.514E+00	-1.537E+00	5.170E-26	
IV= 4	-3.822E-01	-7.115E-01	-1.086E+00	-1.310E+00	-1.464E+00	-1.522E+00	-1.546E+00	5.816E-26	
IV= 3	-3.619E-01	-6.813E-01	-1.033E+00	-1.250E+00	-1.424E+00	-1.508E+00	-1.547E+00	2.585E-26	
IV= 2	-2.732E-01	-5.399E-01	-9.068E-01	-1.173E+00	-1.389E+00	-1.497E+00	-1.549E+00	8.078E-26	
IV= 1	-1.277E-01	-2.863E-01	-5.794E-01	-8.802E-01	-1.228E+00	-1.447E+00	-1.542E+00	8.078E-26	
IV=	1	2	3	4	5	6	7	8	
FIELD VALUES OF V1									
IV= 22	-2.153E-01	-2.128E-01	-2.072E-01	-1.963E-01	-1.799E-01	-1.583E-01	-1.353E-01	-1.119E-01	-1.078E-01
IV= 21	-4.247E-01	-4.231E-01	-4.186E-01	-4.092E-01	-3.936E-01	-3.695E-01	-3.394E-01	-3.021E-01	-3.053E-01
IV= 20	-5.453E-01	-5.436E-01	-5.388E-01	-5.287E-01	-5.113E-01	-4.831E-01	-4.456E-01	-3.944E-01	-4.056E-01
IV= 19	-6.513E-01	-6.490E-01	-6.432E-01	-6.306E-01	-6.093E-01	-5.753E-01	-5.301E-01	-4.640E-01	-4.893E-01
IV= 18	-7.403E-01	-7.386E-01	-7.337E-01	-7.230E-01	-7.026E-01	-6.655E-01	-6.086E-01	-5.075E-01	-6.268E-01
IV= 17	-7.379E-01	-7.365E-01	-7.319E-01	-7.214E-01	-7.023E-01	-6.680E-01	-6.164E-01	-5.002E-01	-6.011E-01
IV= 16	-7.119E-01	-7.106E-01	-7.063E-01	-6.964E-01	-6.786E-01	-6.467E-01	-5.949E-01	-4.536E-01	-5.561E-01
IV= 15	-6.590E-01	-6.577E-01	-6.537E-01	-6.445E-01	-6.282E-01	-5.971E-01	-5.403E-01	-3.746E-01	-5.062E-01
IV= 14	-6.162E-01	-6.147E-01	-6.108E-01	-6.022E-01	-5.869E-01	-5.566E-01	-4.952E-01	-3.150E-01	-4.767E-01
IV= 13	-4.598E-01	-4.580E-01	-4.549E-01	-4.491E-01	-4.397E-01	-4.183E-01	-3.581E-01	-1.580E-01	-4.191E-01
IV= 12	-2.585E-01	-2.573E-01	-2.549E-01	-2.515E-01	-2.476E-01	-2.399E-01	-2.050E-01	2.293E-03	-3.636E-01
IV= 11	-2.793E-10	-3.277E-10	-4.940E-10	-4.959E-10	-6.606E-10	-6.318E-10	-4.294E-10	-1.237E-11	-3.108E-01
IV= 10	-8.711E-02	-7.080E-02	-7.003E-02	-6.581E-02	-6.603E-02	-7.118E-02	-6.560E-02	-3.625E-02	-2.695E-01
IV= 9	-2.018E-01	-1.641E-01	-1.299E-01	-9.958E-02	-9.113E-02	-1.002E-01	-9.791E-02	-5.580E-02	-2.410E-01
IV= 8	-3.155E-01	-2.540E-01	-1.851E-01	-1.232E-01	-1.012E-01	-1.118E-01	-1.158E-01	-6.815E-02	-2.157E-01
IV= 7	-4.253E-01	-3.347E-01	-2.293E-01	-1.334E-01	-9.549E-02	-1.071E-01	-1.206E-01	-7.398E-02	-1.914E-01
IV= 6	-5.206E-01	-3.981E-01	-2.545E-01	-1.246E-01	-7.133E-02	-8.563E-02	-1.123E-01	-7.311E-02	-1.677E-01
IV= 5	-5.879E-01	-4.354E-01	-2.573E-01	-9.979E-02	-3.518E-02	-5.387E-02	-9.515E-02	-6.732E-02	-1.469E-01
IV= 4	-6.359E-01	-4.522E-01	-2.358E-01	-4.949E-02	2.580E-02	-1.007E-03	-6.345E-02	-5.473E-02	-1.219E-01
IV= 3	-6.416E-01	-4.491E-01	-2.025E-01	1.596E-02	1.041E-01	6.537E-02	-2.143E-02	-3.659E-02	-9.309E-02
IV= 2	-6.312E-01	-4.401E-01	-1.740E-01	4.883E-02	1.294E-01	8.394E-02	-7.939E-03	-2.894E-02	-7.935E-02
IV= 1	-4.487E-01	-3.276E-01	-1.388E-01	5.906E-02	1.547E-01	1.117E-01	2.038E-02	-9.321E-03	-4.007E-02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									

IV= 23	-6.607E-01	-6.506E-01	-6.104E-01	-5.098E-01	-4.127E-01	-2.700E-01	-1.419E-01	-4.431E-02	-7.320E-09
IV= 22	-4.001E-01	-3.894E-01	-3.628E-01	-3.102E-01	-2.313E-01	-1.314E-01	-3.827E-02	3.345E-02	7.286E-02
IV= 21	-1.933E-01	-1.851E-01	-1.645E-01	-1.239E-01	-6.279E-02	1.521E-02	8.625E-02	1.360E-01	1.720E-01
IV= 20	1.298E-02	1.956E-02	3.580E-02	6.776E-02	1.155E-01	1.751E-01	2.258E-01	2.520E-01	2.919E-01
IV= 19	2.207E-01	2.253E-01	2.364E-01	2.588E-01	2.933E-01	3.366E-01	3.672E-01	3.631E-01	4.264E-01
IV= 18	1.033E-01	1.067E-01	1.142E-01	1.295E-01	1.524E-01	1.793E-01	1.912E-01	1.591E-01	5.424E-01
IV= 17	1.330E-03	3.644E-03	9.168E-03	1.990E-02	3.570E-02	5.266E-02	5.482E-02	1.798E-02	6.218E-01
IV= 16	-8.602E-02	-8.547E-02	-8.142E-02	-7.353E-02	-6.221E-02	-5.119E-02	-5.412E-02	-8.985E-02	6.538E-01
IV= 15	-1.353E-01	-1.341E-01	-1.307E-01	-1.238E-01	-1.141E-01	-1.057E-01	-1.116E-01	-1.448E-01	6.667E-01
IV= 14	-2.187E-01	-2.181E-01	-2.157E-01	-2.109E-01	-2.046E-01	-2.009E-01	-2.094E-01	-2.245E-01	6.736E-01
IV= 13	-2.977E-01	-2.971E-01	-2.953E-01	-2.918E-01	-2.873E-01	-2.851E-01	-2.920E-01	-2.828E-01	6.777E-01
IV= 12	-3.604E-01	-3.598E-01	-3.579E-01	-3.551E-01	-3.529E-01	-3.546E-01	-3.627E-01	-3.525E-01	6.793E-01
IV= 11	5.117E+00	4.940E+00	4.664E+00	4.182E+00	3.584E+00	2.714E+00	1.771E+00	8.126E+00	6.795E+00
IV= 10	5.327E+00	5.141E+00	4.842E+00	4.325E+00	3.695E+00	2.791E+00	1.821E+00	8.375E+00	6.793E+00
IV= 9	5.558E+00	5.371E+00	5.057E+00	4.502E+00	3.832E+00	2.885E+00	1.882E+00	8.684E+00	6.794E+00
IV= 8	5.844E+00	5.650E+00	5.314E+00	4.711E+00	3.994E+00	2.997E+00	1.956E+00	9.056E+00	6.800E+00
IV= 7	6.178E+00	5.970E+00	5.602E+00	4.944E+00	4.174E+00	3.122E+00	2.039E+00	9.470E+00	6.810E+00
IV= 6	6.508E+00	6.283E+00	5.883E+00	5.172E+00	4.350E+00	3.246E+00	2.120E+00	9.869E+00	6.820E+00
IV= 5	6.869E+00	6.614E+00	6.172E+00	5.402E+00	4.530E+00	3.375E+00	2.203E+00	1.027E+00	6.827E+00
IV= 4	7.165E+00	6.893E+00	6.428E+00	5.623E+00	4.713E+00	3.506E+00	2.288E+00	1.068E+00	6.817E+00
IV= 3	7.248E+00	7.002E+00	6.577E+00	5.800E+00	4.871E+00	3.608E+00	2.341E+00	1.091E+00	6.804E+00
IV= 2	7.374E+00	7.158E+00	6.739E+00	5.946E+00	4.992E+00	3.696E+00	2.395E+00	1.116E+00	6.720E+00
IV= 1	7.401E+00	7.264E+00	6.938E+00	6.217E+00	5.199E+00	3.782E+00	2.427E+00	1.131E+00	6.572E+00
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE									
IV= 23	2.345E-01	2.331E-01	2.295E-01	2.202E-01	2.023E-01	1.718E-01	1.361E-01	1.011E-01	9.081E-02
IV= 22	1.881E-01	1.871E-01	1.844E-01	1.781E-01	1.667E-01	1.471E-01	1.228E-01	9.709E-02	9.025E-02
IV= 21	1.580E-01	1.571E-01	1.548E-01	1.495E-01	1.398E-01	1.235E-01	1.033E-01	8.189E-02	7.762E-02
IV= 20	1.383E-01	1.371E-01	1.347E-01	1.291E-01	1.195E-01	1.041E-01	8.538E-02	6.558E-02	6.297E-02
IV= 19	1.000E-01	9.892E-02	9.622E-02	9.082E-02	8.242E-02	7.060E-02	5.763E-02	4.324E-02	4.743E-02
IV= 18	9.796E-02	9.822E-02	9.715E-02	9.372E-02	8.777E-02	7.823E-02	6.307E-02	2.285E-03	5.079E-03
IV= 17	9.801E-02	9.855E-02	9.815E-02	9.608E-02	9.187E-02	8.333E-02	6.617E-02	1.904E-03	5.421E-03
IV= 16	9.800E-02	9.881E-02	9.854E-02	9.697E-02	9.327E-02	8.455E-02	6.595E-02	1.528E-03	5.341E-03
IV= 15	1.037E-01	1.041E-01	1.039E-01	1.023E-01	9.816E-02	8.850E-02	6.799E-02	1.230E-03	5.163E-03
IV= 14	1.322E-01	1.325E-01	1.319E-01	1.289E-01	1.219E-01	1.059E-01	7.708E-02	9.630E-04	4.955E-03
IV= 13	1.570E-01	1.555E-01	1.533E-01	1.484E-01	1.382E-01	1.160E-01	7.876E-02	7.973E-04	4.677E-03
IV= 12	1.129E-03	1.128E-03	1.125E-03	1.125E-03	1.125E-03	1.175E-03	1.224E-03	1.011E-03	4.420E-03
IV= 11	1.422E-01	1.346E-01	1.225E-01	1.028E-01	8.111E-02	5.433E-02	3.253E-02	6.806E-03	4.217E-03
IV= 10	2.007E-01	1.176E-01	6.195E-02	3.681E-02	2.706E-02	1.988E-02	1.278E-02	5.249E-03	4.083E-03
IV= 9	2.410E-01	1.414E-01	6.976E-02	4.017E-02	2.876E-02	2.046E-02	1.303E-02	5.614E-03	3.993E-03
IV= 8	2.708E-01	1.624E-01	7.943E-02	4.623E-02	3.324E-02	2.318E-02	1.428E-02	6.062E-03	3.923E-03
IV= 7	2.039E-01	1.798E-01	8.938E-02	5.318E-02	3.629E-02	2.627E-02	1.573E-02	6.571E-03	3.868E-03
IV= 6	3.110E-01	1.939E-01	9.660E-02	5.971E-02	4.326E-02	2.943E-02	1.722E-02	7.072E-03	3.805E-03
IV= 5	2.031E-01	2.065E-01	1.082E-01	6.630E-02	4.818E-02	3.276E-02	1.879E-02	7.596E-03	3.785E-03
IV= 4	3.125E-01	2.094E-01	1.177E-01	7.411E-02	5.482E-02	3.725E-02	2.065E-02	8.133E-03	3.730E-03
IV= 3	2.979E-01	2.044E-01	1.197E-01	8.184E-02	6.482E-02	4.423E-02	2.272E-02	8.450E-03	3.688E-03
IV= 2	2.563E-01	1.986E-01	1.381E-01	9.890E-02	7.772E-02	5.180E-02	2.528E-02	8.799E-03	3.580E-03
IV= 1	2.756E-01	2.665E-01	2.456E-01	2.027E-01	1.496E-01	8.978E-02	4.807E-02	1.083E-02	3.427E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP									
IV= 23	2.582E-02	2.559E-02	2.497E-02	2.341E-02	2.045E-02	1.579E-02	1.090E-02	6.737E-03	5.364E-03
IV= 22	1.638E-02	1.605E-02	1.588E-02	1.502E-02	1.343E-02	1.096E-02	8.182E-03	5.557E-03	4.722E-03
IV= 21	1.204E-02	1.191E-02	1.166E-02	1.104E-02	9.934E-03	8.172E-03	6.166E-03	4.242E-03	3.717E-03
IV= 20	9.497E-03	9.394E-03	9.126E-03	8.582E-03	7.640E-03	6.189E-03	4.621E-03	3.151E-03	2.857E-03
IV= 19	6.168E-03	6.079E-03	5.879E-03	5.479E-03	4.831E-03	3.908E-03	2.963E-03	1.988E-03	2.277E-03
IV= 18	6.034E-03	6.091E-03	6.008E-03	5.750E-03	5.306E-03	4.613E-03	3.667E-03	1.500E-04	5.218E-04
IV= 17	6.120E-03	6.197E-03	6.189E-03	6.049E-03	5.761E-03	5.204E-03	4.173E-03	1.141E-04	5.754E-04
IV= 16	6.258E-03	6.301E-03	6.312E-03	6.229E-03	6.010E-03	5.491E-03	4.389E-03	8.288E-05	5.626E-04
IV= 15	6.743E-03	6.804E-03	6.821E-03	6.768E-03	6.557E-03	5.995E-03	4.756E-03	5.926E-05	5.368E-04
IV= 14	1.040E-02	1.050E-02	1.051E-02	1.032E-02	9.807E-03	8.583E-03	6.391E-03	4.104E-05	5.043E-04
IV= 13	1.519E-02	1.499E-02	1.477E-02	1.452E-02	1.332E-02	1.109E-02	7.451E-03	3.092E-05	4.611E-04
IV= 12	4.715E-05	4.704E-05	4.690E-05	4.686E-05	4.748E-05	4.989E-05	5.322E-05	4.206E-05	4.236E-04
IV= 11	8.186E-02	7.462E-02	6.480E-02	4.979E-02	3.490E-02	1.913E-02	8.864E-03	8.097E-04	3.948E-04
IV= 10	7.440E-02	4.002E-02	2.024E-02	1.120E-02	7.681E-03	5.012E-03	2.594E-03	5.223E-04	3.761E-04
IV= 9	8.805E-02	4.622E-02	2.166E-02	1.142E-02	7.734E-03	5.028E-03	2.607E-03	5.777E-04	3.637E-04
IV= 8	9.998E-02	5.315E-02	2.481E-02	1.350E-02	9.328E-03	6.037E-03	3.028E-03	6.482E-04	3.542E-04
IV= 7	1.096E-01	5.962E-02	2.853E-02	1.614E-02	1.135E-02	7.321E-03	3.561E-03	7.315E-04	3.468E-04
IV= 6	1.173E-01	6.537E-02	3.223E-02	1.886E-02	1.351E-02	8.727E-03	4.146E-03	8.169E-04	3.410E-04

IV= 5	1.0224E-01	7.048E-02	3.631E-02	2.181E-02	1.583E-02	1.030E-02	4.799E-03	9.093E-04	3.357E-04
IV= 4	1.159E-01	7.069E-02	3.996E-02	2.541E-02	1.912E-02	1.255E-02	5.630E-03	1.007E-03	3.284E-04
IV= 3	1.075E-01	6.719E-02	3.983E-02	2.876E-02	2.409E-02	1.600E-02	6.632E-03	1.067E-03	3.229E-04
IV= 2	8.459E-02	6.195E-02	4.619E-02	3.754E-02	3.124E-02	1.952E-02	7.648E-03	1.134E-03	3.088E-04
IV= 1	1.945E-01	1.849E-01	1.636E-01	1.226E-01	7.781E-02	3.616E-02	1.417E-02	1.532E-03	2.892E-04
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1									
IV= 23	2.966E+05	2.966E+05	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05
IV= 22	2.963E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05
IV= 21	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 20	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 19	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 18	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 17	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 16	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 15	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 14	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 13	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 12	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 11	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 10	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 9	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 8	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 7	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 6	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 5	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 4	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 3	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 2	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 1	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST									
IV= 23	1.917E-01	1.912E-01	1.898E-01	1.865E-01	1.802E-01	1.683E-01	1.528E-01	1.365E-01	1.384E-01
IV= 22	1.944E-01	1.939E-01	1.927E-01	1.901E-01	1.861E-01	1.776E-01	1.658E-01	1.527E-01	1.553E-01
IV= 21	1.867E-01	1.862E-01	1.850E-01	1.822E-01	1.771E-01	1.679E-01	1.559E-01	1.423E-01	1.459E-01
IV= 20	1.812E-01	1.805E-01	1.787E-01	1.749E-01	1.683E-01	1.576E-01	1.420E-01	1.236E-01	1.249E-01
IV= 19	1.461E-01	1.449E-01	1.418E-01	1.355E-01	1.266E-01	1.148E-01	1.009E-01	8.465E-02	8.895E-02
IV= 18	1.431E-01	1.429E-01	1.414E-01	1.375E-01	1.207E-01	1.194E-01	9.764E-02	3.133E-03	4.449E-03
IV= 17	1.413E-01	1.411E-01	1.401E-01	1.373E-01	1.318E-01	1.201E-01	9.443E-02	2.859E-03	4.597E-03
IV= 16	1.398E-01	1.394E-01	1.385E-01	1.359E-01	1.303E-01	1.172E-01	8.919E-02	2.570E-03	4.563E-03
IV= 15	1.436E-01	1.433E-01	1.421E-01	1.390E-01	1.323E-01	1.176E-01	8.747E-02	2.298E-03	4.486E-03
IV= 14	1.512E-01	1.507E-01	1.490E-01	1.448E-01	1.363E-01	1.176E-01	8.366E-02	2.034E-03	4.399E-03
IV= 13	1.461E-01	1.452E-01	1.422E-01	1.384E-01	1.291E-01	1.091E-01	7.493E-02	1.850E-03	4.270E-03
IV= 12	2.434E-03	2.423E-03	2.430E-03	2.429E-03	2.440E-03	2.481E-03	2.535E-03	2.188E-03	4.151E-03
IV= 11	2.254E-02	2.186E-02	2.085E-02	1.910E-02	1.697E-02	1.380E-02	1.074E-02	5.149E-03	4.054E-03
IV= 10	4.873E-02	3.111E-02	1.706E-02	1.084E-02	8.581E-03	7.098E-03	5.663E-03	4.748E-03	3.989E-03
IV= 9	5.939E-02	3.895E-02	2.022E-02	1.272E-02	9.623E-03	7.490E-03	5.864E-03	4.910E-03	3.945E-03
IV= 8	6.599E-02	4.464E-02	2.288E-02	1.432E-02	1.066E-02	7.994E-03	6.062E-03	5.102E-03	3.910E-03
IV= 7	7.093E-02	4.883E-02	2.521E-02	1.577E-02	1.162E-02	8.484E-03	6.255E-03	5.312E-03	3.883E-03
IV= 6	7.420E-02	5.176E-02	2.715E-02	1.702E-02	1.247E-02	8.935E-03	6.436E-03	5.511E-03	3.881E-03
IV= 5	7.674E-02	5.449E-02	2.908E-02	1.814E-02	1.319E-02	9.375E-03	6.621E-03	5.711E-03	3.841E-03
IV= 4	7.581E-02	5.582E-02	3.120E-02	1.946E-02	1.415E-02	9.950E-03	6.815E-03	5.910E-03	3.813E-03
IV= 3	7.455E-02	5.598E-02	3.239E-02	2.096E-02	1.570E-02	1.000E-02	7.005E-03	6.024E-03	3.792E-03
IV= 2	6.991E-02	5.729E-02	3.719E-02	2.345E-02	1.740E-02	1.237E-02	7.520E-03	6.147E-03	3.726E-03
IV= 1	3.515E-02	3.456E-02	3.318E-02	3.014E-02	2.590E-02	2.006E-02	1.468E-02	6.894E-03	3.655E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IV= 23	2.954E+02	2.954E+02	2.954E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02
IV= 22	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02
IV= 21	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02
IV= 20	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 19	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 18	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 17	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 16	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 15	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 14	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 13	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02

IY= 12	2.950E+02									
IY= 11	2.950E+02									
IY= 10	2.950E+02									
IY= 9	2.950E+02									
IY= 8	2.950E+02									
IY= 7	2.950E+02									
IY= 6	2.950E+02									
IY= 5	2.950E+02									
IY= 4	2.950E+02									
IY= 3	2.950E+02									
IY= 2	2.950E+02									
IY= 1	2.950E+02									
IX= 1	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHOI										
IY= 23	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00
IY= 22	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 21	1.201E+00									
IY= 20	1.201E+00									
IY= 19	1.201E+00									
IY= 18	1.201E+00									
IY= 17	1.201E+00									
IY= 16	1.201E+00									
IY= 15	1.201E+00									
IY= 14	1.201E+00									
IY= 13	1.201E+00									
IY= 12	1.201E+00									
IY= 11	1.201E+00									
IY= 10	1.201E+00									
IY= 9	1.201E+00									
IY= 8	1.201E+00									
IY= 7	1.201E+00									
IY= 6	1.201E+00									
IY= 5	1.201E+00									
IY= 4	1.201E+00									
IY= 3	1.201E+00									
IY= 2	1.201E+00									
IY= 1	1.201E+00									
IX= 1	1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 12 ITERM NO= 1

FLOW FIELD AT ITHYD= 1. IZ= 12. ISWEEP= 70. ISTEP= 1										
FIELD VALUES OF P1										
IY= 23	-5.661E-01	-5.610E-01	-5.650E-01	-5.710E-01	-5.796E-01	-5.864E-01	-5.902E-01	-5.746E-01	-5.859E-01	
IY= 22	-5.729E-01	-5.632E-01	-5.660E-01	-5.707E-01	-5.768E-01	-5.834E-01	-5.881E-01	-5.734E-01	-5.826E-01	
IY= 21	-6.820E-01	-6.769E-01	-6.778E-01	-6.792E-01	-6.808E-01	-6.818E-01	-6.815E-01	-6.602E-01	-6.727E-01	
IY= 20	-8.090E-01	-8.070E-01	-8.076E-01	-8.083E-01	-8.084E-01	-8.067E-01	-8.027E-01	-7.727E-01	-7.884E-01	
IY= 19	-1.179E+00	-1.181E+00	-1.182E+00	-1.185E+00	-1.182E+00	-1.166E+00	-1.132E+00	-1.040E+00	-1.033E+00	
IY= 18	-3.393E+00	-3.398E+00	-3.407E+00	-3.407E+00	-3.368E+00	-3.217E+00	-2.912E+00	-2.281E+00	-1.644E+00	
IY= 17	-4.225E+00	-4.221E+00	-4.207E+00	-4.162E+00	-4.072E+00	-3.889E+00	-3.665E+00	-3.013E+00	-1.669E+00	
IY= 16	-5.625E+00	-5.615E+00	-5.586E+00	-5.515E+00	-5.408E+00	-5.261E+00	-5.227E+00	-5.317E+00	-1.042E+00	
IY= 15	-6.041E+00	-6.041E+00	-6.035E+00	-6.013E+00	-5.979E+00	-5.899E+00	-5.797E+00	-5.461E+00	-1.057E+00	
IY= 14	-5.946E+00	-5.954E+00	-5.970E+00	-5.994E+00	-6.050E+00	-6.129E+00	-6.157E+00	-5.778E+00	-1.059E+00	
IY= 13	-4.503E+00	-4.514E+00	-4.545E+00	-4.633E+00	-4.843E+00	-5.275E+00	-5.703E+00	-5.505E+00	-1.047E+00	
IY= 12	-2.676E+00	-2.682E+00	-2.707E+00	-2.800E+00	-3.066E+00	-3.775E+00	-4.818E+00	-5.211E+00	-1.024E+00	
IY= 11	-3.162E+01	-3.168E+01	-3.178E+01	-3.135E+01	-3.066E+01	-2.967E+01	-2.890E+01	-2.364E+01	-9.990E+01	
IY= 10	-3.461E+01	-3.460E+01	-3.448E+01	-3.346E+01	-3.209E+01	-3.057E+01	-2.957E+01	-2.406E+01	-9.803E+01	
IY= 9	-4.022E+01	-4.002E+01	-3.928E+01	-3.702E+01	-3.432E+01	-3.191E+01	-3.051E+01	-2.462E+01	-9.678E+01	
IY= 8	-5.008E+01	-4.939E+01	-4.720E+01	-4.240E+01	-3.738E+01	-3.363E+01	-3.165E+01	-2.528E+01	-9.571E+01	
IY= 7	-6.713E+01	-6.541E+01	-5.968E+01	-4.993E+01	-4.115E+01	-3.558E+01	-3.292E+01	-2.598E+01	-9.475E+01	
IY= 6	-9.284E+01	-8.965E+01	-7.606E+01	-5.837E+01	-4.684E+01	-3.740E+01	-3.410E+01	-2.664E+01	-9.392E+01	
IY= 5	-1.221E+02	-1.195E+02	-9.354E+01	-6.629E+01	-4.808E+01	-3.904E+01	-3.522E+01	-2.727E+01	-9.321E+01	
IY= 4	-1.177E+02	-1.192E+02	-9.566E+01	-6.838E+01	-4.961E+01	-4.021E+01	-3.620E+01	-2.787E+01	-9.249E+01	
IY= 3	-1.051E+02	-1.042E+02	-8.566E+01	-6.419E+01	-4.868E+01	-4.034E+01	-3.660E+01	-2.819E+01	-9.195E+01	
IY= 2	-7.916E+01	-7.818E+01	-7.117E+01	-5.879E+01	-4.758E+01	-4.068E+01	-3.703E+01	-2.852E+01	-9.158E+01	
IY= 1	-6.200E+01	-6.110E+01	-5.883E+01	-5.262E+01	-4.565E+01	-4.016E+01	-3.717E+01	-2.870E+01	-9.117E+01	

IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF U1									
IY= 23	7.198E-02	1.341E-02	1.083E-02	2.151E-02	1.628E-02	4.392E-03	-1.139E-02	1.877E-02	
IY= 22	1.165E-02	2.037E-02	3.537E-02	4.292E-02	4.298E-02	3.161E-02	1.101E-02	3.128E-02	
IY= 21	6.401E-03	1.215E-02	1.864E-02	2.128E-02	1.777E-02	6.435E-03	-1.067E-02	2.396E-02	
IY= 20	2.695E-03	4.829E-03	6.246E-03	4.564E-03	-3.031E-03	-1.594E-02	-3.157E-02	1.778E-02	
IY= 19	-3.550E-05	-1.055E-03	-5.567E-03	-1.515E-02	-3.579E-02	-6.100E-02	-8.376E-02	-6.495E-03	
IY= 18	2.472E-03	9.998E-04	-1.231E-02	-4.576E-02	-1.295E-01	-2.648E-01	-4.327E-01	-3.755E-01	
IY= 17	-6.582E-03	-1.821E-02	-5.091E-02	-1.125E-01	-2.547E-01	-4.904E-01	-8.334E-01	-1.022E+00	
IY= 16	-1.575E-02	-3.784E-02	-8.979E-02	-1.747E-01	-3.398E-01	-5.269E-01	-6.223E-01	-7.283E-07	
IY= 15	-1.668E-02	-4.077E-02	-9.896E-02	-1.943E-01	-3.734E-01	-5.550E-01	-6.081E-01	-2.180E-13	
IY= 14	-1.201E-02	-3.406E-02	-9.504E-02	-1.968E-01	-3.800E-01	-5.553E-01	-6.005E-01	-2.020E-20	
IY= 13	-2.715E-03	-1.226E-02	-4.489E-02	-1.014E-01	-2.103E-01	-3.697E-01	-5.136E-01	2.011E-17	
IY= 12	8.350E-03	1.831E-02	4.592E-02	1.111E-01	2.647E-01	4.441E-01	3.064E-01	1.401E-09	
IY= 11	-5.216E-01	-9.745E-01	-1.526E+00	-1.879E+00	-2.118E+00	-2.148E+00	-2.076E+00	5.170E-17	
IY= 10	-6.396E-01	-1.170E+00	-1.768E+00	-2.100E+00	-2.267E+00	-2.230E+00	-2.120E+00	3.231E-26	
IY= 9	-8.114E-01	-1.461E+00	-2.129E+00	-2.421E+00	-2.480E+00	-2.349E+00	-2.182E+00	2.908E-26	
IY= 8	-1.101E+00	-1.941E+00	-2.687E+00	-2.889E+00	-2.770E+00	-2.507E+00	-2.263E+00	2.908E-26	
IY= 7	-1.599E+00	-2.749E+00	-3.527E+00	-3.524E+00	-3.128E+00	-2.692E+00	-2.356E+00	2.908E-26	
IY= 6	-2.342E+00	-3.955E+00	-4.590E+00	-4.227E+00	-3.484E+00	-2.865E+00	-2.442E+00	2.585E-26	
IY= 5	-3.434E+00	-5.775E+00	-5.882E+00	-4.964E+00	-3.824E+00	-3.028E+00	-2.524E+00	3.231E-26	
IY= 4	-3.701E+00	-6.258E+00	-6.299E+00	-5.240E+00	-3.976E+00	-3.120E+00	-2.585E+00	3.554E-26	
IY= 3	-2.756E+00	-4.949E+00	-5.400E+00	-4.808E+00	-3.847E+00	-3.093E+00	-2.597E+00	1.616E-26	
IY= 2	-2.032E+00	-3.509E+00	-4.319E+00	-4.185E+00	-3.610E+00	-3.036E+00	-2.609E+00	4.847E-26	
IY= 1	-1.213E+00	-2.204E+00	-3.125E+00	-3.394E+00	-3.259E+00	-2.920E+00	-2.593E+00	4.847E-26	
IX#	1	2	3	4	5	6	7	8	
FIELD VALUES OF V1									
IY= 20	-1.724E-01	-2.681E-01	-2.584E-01	-2.402E-01	-2.139E-01	-1.814E-01	-1.499E-01	-1.205E-01	-1.144E-01
IY= 21	-4.616E-01	-4.602E-01	-4.560E-01	-4.470E-01	-4.322E-01	-4.092E-01	-3.796E-01	-3.409E-01	-3.476E-01
IY= 20	-6.051E-01	-6.044E-01	-6.019E-01	-5.957E-01	-5.835E-01	-5.601E-01	-5.244E-01	-4.710E-01	-4.874E-01
IY= 19	-8.605E-01	-8.595E-01	-8.563E-01	-8.477E-01	-8.298E-01	-7.919E-01	-7.324E-01	-6.413E-01	-6.625E-01
IY= 18	-1.772E+00	-1.771E+00	-1.766E+00	-1.750E+00	-1.708E+00	-1.602E+00	-1.424E+00	-1.122E+00	-1.027E+00
IY= 17	-2.071E+00	-2.069E+00	-2.062E+00	-2.039E+00	-1.986E+00	-1.865E+00	-1.652E+00	-1.232E+00	-9.067E-01
IY= 16	-2.563E+00	-2.560E+00	-2.551E+00	-2.526E+00	-2.472E+00	-2.361F+00	-2.156E+00	-1.676E+00	-2.263E+00
IY= 15	-2.689E+00	-2.690E+00	-2.690E+00	-2.642E+00	-2.520E+00	-2.200E+00	-1.437E+00	-3.703E+00	
IY= 14	-2.657E+00	-2.660E+00	-2.667E+00	-2.669E+00	-2.646E+00	-2.516E+00	-2.126E+00	-1.262E+00	-4.051E+00
IY= 13	-2.154E+00	-2.160E+00	-2.175E+00	-2.202E+00	-2.212E+00	-2.092E+00	-1.598E+00	-6.655E-01	-3.892E+00
IY= 12	-1.255E+00	-1.262E+00	-1.283E+00	-1.329E+00	-1.381E+00	-1.362E+00	-9.310E-01	4.805E-02	-3.460E+00
IY= 11	-3.498E-09	-3.511E-09	-5.411E-09	-5.665E-09	-7.941E-09	-7.787E-09	-4.775E-09	-3.068E-11	-2.953E-01
IY= 10	-1.039E+00	-1.030E+00	-9.747E-01	-8.402E-01	-6.879E-01	-5.362E-01	-3.895E-01	-1.953E-01	-2.533E-01
IY= 9	-1.966E+00	-1.905E+00	-1.749E+00	-1.452E+00	-1.151E+00	-8.763E-01	-6.261E-01	-3.090E-01	-2.239E-01
IY= 8	-3.037E+00	-2.850E+00	-2.525E+00	-1.996E+00	-1.516E+00	-1.119E+00	-7.831E-01	-3.748E-01	-1.978E-01
IY= 7	-4.240E+00	-3.911E+00	-3.299E+00	-2.441E+00	-1.757E+00	-1.255E+00	-8.612E-01	-4.012E-01	-1.730E-01
IY= 6	-5.506E+00	-4.907E+00	-3.855E+00	-2.626E+00	-1.794E+00	-1.354E+00	-8.524E-01	-3.903E-01	-1.494E-01
IY= 5	-5.915E+00	-5.124E+00	-3.715E+00	-2.388E+00	-1.516E+00	-1.120E+00	-7.767E-01	-3.545E-01	-1.292E-01
IY= 4	-2.557E+00	-2.134E+00	-1.692E+00	-1.245E+00	-1.006E+00	-8.269E-01	-6.103E-01	-2.847E-01	-1.057E-01
IY= 3	2.043E+00	1.896E+00	1.129E+00	2.803E-01	-2.082E-01	-4.137E-01	-3.829E-01	-1.926E-01	-7.963E-02
IY= 2	3.134E+00	2.793E+00	1.719E+00	6.547E-01	3.528E-02	-2.586E-01	-2.890E-01	-1.541E-01	-6.745E-02
IY= 1	1.861E+00	1.782E+00	1.354E+00	7.397E-01	2.775E-01	-4.945E-03	-9.310E-02	-6.132E-02	-3.375E-02
IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IY= 23	-9.444E-01	-9.191E-01	-8.543E-01	-7.339E-01	-5.643E-01	-3.649E-01	-1.898E-01	-5.822E-02	-8.704E-09
IY= 22	-5.842E-01	-5.685E-01	-5.304E-01	-4.570E-01	-3.481E-01	-2.110E-01	-8.610E-02	1.416E-02	6.585E-02
IY= 21	-3.651E-01	-3.526E-01	-3.229E-01	-2.655E-01	-1.798E-01	-7.150E-02	2.726E-02	9.919E-02	1.445E-01
IY= 20	-2.076E-01	-1.965E-01	-1.704E-01	-1.200E-01	-4.585E-02	4.697E-02	1.283E-01	1.808E-01	2.260E-01
IY= 19	-1.269E-01	-1.146E-01	-8.636E-02	-3.275E-02	4.501E-02	1.401E-01	2.180E-01	2.597E-01	3.169E-01
IY= 18	-4.807E-01	-4.672E-01	-4.289E-01	-3.849E-01	-3.058E-01	-1.992E-01	-9.185E-02	2.728E-02	2.631E-01
IY= 17	-7.574E-01	-7.398E-01	-7.054E-01	-6.394E-01	-5.433E-01	-4.089E-01	-2.488E-01	-3.279E-02	2.879E-01
IY= 16	-1.490E-01	-1.343E-01	-1.077E-01	-6.052E-02	-4.857E-03	4.797E-02	8.373E-02	1.058E-01	5.125E-01
IY= 15	1.426E-01	1.593E-01	1.887E-01	2.339E-01	2.758E-01	2.958E-01	2.869E-01	2.450E-01	6.344E-01
IY= 14	7.315E-01	7.612E-01	8.102E-01	8.638E-01	8.921E-01	8.693E-01	8.019E-01	6.419E-01	7.606E-01
IY= 13	1.250E+00	1.270E+00	1.301E+00	1.326E+00	1.322E+00	1.263E+00	1.150E+00	9.008E-01	8.138E-01
IY= 12	1.704E+00	1.709E+00	1.710E+00	1.694E+00	1.659E+00	1.592E+00	1.505E+00	1.063E+00	8.330E-01
IY= 11	5.659E+00	5.134E+00	4.505E+00	3.589E+00	2.676E+00	1.562E+00	6.709E-01	9.444E-02	8.351E-01
IY= 10	5.968E+00	5.380E+00	4.697E+00	3.726E+00	2.788E+00	1.673E+00	7.936E-01	1.887E-01	8.318E-01
IY= 9	6.555E+00	5.871E+00	5.079E+00	3.988E+00	2.985E+00	1.853E+00	9.659E-01	3.216E-01	8.268E-01
IY= 8	7.744E+00	6.859E+00	5.807E+00	4.440E+00	3.286E+00	2.097E+00	1.172E+00	4.461E-01	8.212E-01
IY= 7	1.034E+01	8.964E+00	7.175E+00	5.153E+00	3.685E+00	2.376E+00	1.385E+00	5.570E-01	8.160E-01

IV=	6	1.613E+01	1.351E+01	9.505E+00	6.092E+00	4.114E+00	2.635E+00	1.566E+00	6.447E-01	8.118E-01
IV=	5	3.005E+01	2.475E+01	1.359E+01	7.301E+00	4.584E+00	2.901E+00	1.740E+00	7.214E-01	8.077E-01
IV=	4	5.330E+01	2.721E+01	1.489E+01	7.705E+00	4.878E+00	3.114E+00	1.881E+00	7.808E-01	8.031E-01
IV=	3	2.498E+01	2.127E+01	1.240E+01	7.323E+00	4.881E+00	3.189E+00	1.938E+00	8.055E-01	8.005E-01
IV=	2	1.515E+01	1.294E+01	9.762E+00	6.787E+00	4.894E+00	3.286E+00	2.007E+00	8.324E-01	7.915E-01
IV=	1	1.069E+01	9.589E+00	8.208E+00	6.388E+00	4.877E+00	3.333E+00	2.028E+00	8.452E-01	7.775E-01
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IV=	23	3.261E-01	3.231E-01	3.200E-01	3.095E-01	2.858E-01	2.427E-01	1.911E-01	1.408E-01	1.262E-01
IV=	22	2.409E-01	2.403E-01	2.383E-01	2.327E-01	2.205E-01	1.971E-01	1.662E-01	1.321E-01	1.236E-01
IV=	21	1.929E-01	1.924E-01	1.912E-01	1.877E-01	1.796E-01	1.629E-01	1.398E-01	1.125E-01	1.098E-01
IV=	20	1.809E-01	1.804E-01	1.791E-01	1.756E-01	1.678E-01	1.522E-01	1.308E-01	1.060E-01	1.045E-01
IV=	19	3.585E-01	3.567E-01	3.520E-01	3.410E-01	3.189E-01	2.778E-01	2.292E-01	1.689E-01	1.541E-01
IV=	18	2.183E-02	2.179E-02	2.167E-02	2.127E-02	2.034E-02	1.830E-02	1.523E-02	9.897E-03	2.524E-01
IV=	17	3.070E-02	3.056E-02	3.046E-02	2.991E-02	2.878E-02	2.669E-02	2.381E-02	1.793E-02	4.308E-01
IV=	16	3.859E-02	3.857E-02	3.847E-02	3.806E-02	3.711E-02	3.474E-02	3.191E-02	1.577E-02	2.839E-03
IV=	15	3.986E-02	3.993E-02	4.004E-02	4.001E-02	3.950E-02	3.688E-02	2.886E-02	1.238E-02	4.265E-03
IV=	14	3.288E-02	3.300E-02	3.328E-02	3.374E-02	3.390E-02	3.156E-02	2.240E-02	8.086E-03	5.521E-03
IV=	13	1.754E-02	1.766E-02	1.800E-02	1.873E-02	1.943E-02	1.842E-02	1.131E-02	3.940E-03	5.933E-03
IV=	12	1.073E-02	1.079E-02	1.085E-02	1.082E-02	1.077E-02	1.065E-02	9.149E-03	5.449E-03	5.929E-03
IV=	11	1.731E-01	1.465E-01	1.211E-01	8.994E-02	6.553E-02	4.280E-02	3.105E-02	4.060E-03	5.767E-03
IV=	10	2.903E-01	1.824E-01	1.219E-01	8.082E-02	5.532E-02	3.133E-02	1.239E-02	9.050E-04	5.606E-03
IV=	9	4.352E-01	2.461E-01	1.420E-01	8.326E-02	5.215E-02	2.693E-02	9.720E-03	1.848E-03	5.465E-03
IV=	8	6.883E-01	3.786E-01	1.963E-01	1.020E-01	5.786E-02	2.807E-02	1.066E-02	2.796E-03	5.335E-03
IV=	7	1.210E+00	6.664E-01	3.137E-01	1.432E-01	7.225E-02	3.268E-02	1.279E-02	3.628E-03	5.220E-03
IV=	6	2.392E+00	1.330E+00	5.583E-01	2.154E-01	9.404E-02	3.885E-02	1.501E-02	4.235E-03	5.129E-03
IV=	5	4.452E+00	2.545E+00	1.062E+00	3.265E-01	1.222E-01	4.602E-02	1.721E-02	4.701E-03	5.045E-03
IV=	4	4.220E+00	2.327E+00	1.098E+00	3.481E-01	1.322E-01	5.007E-02	1.853E-02	5.000E-03	4.959E-03
IV=	3	2.778E+00	1.996E+00	9.427E-01	3.051E-01	1.246E-01	5.005E-02	1.864E-02	5.083E-03	4.908E-03
IV=	2	1.778E+00	1.552E+00	6.952E-01	2.579E-01	1.202E-01	5.100E-02	1.902E-02	5.256E-03	4.789E-03
IV=	1	5.477E-01	4.565E-01	3.654E-01	2.601E-01	1.820E-01	1.127E-01	6.732E-02	1.059E-02	4.628E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IV=	23	4.486E-02	4.465E-02	4.396E-02	4.163E-02	3.650E-02	2.797E-02	1.903E-02	1.151E-02	9.088E-03
IV=	22	2.595E-02	2.582E-02	2.542E-02	2.433E-02	2.208E-02	1.819E-02	1.363E-02	9.216E-03	7.828E-03
IV=	21	1.784E-02	1.775E-02	1.751E-02	1.690E-02	1.559E-02	1.317E-02	1.018E-02	7.177E-03	6.462E-03
IV=	20	1.542E-02	1.522E-02	1.512E-02	1.460E-02	1.351E-02	1.148E-02	8.954E-03	6.360E-03	5.924E-03
IV=	19	5.086E-02	5.026E-02	4.911E-02	4.610E-02	4.082E-02	3.263E-02	2.409E-02	1.459E-02	1.167E-02
IV=	18	2.899E-03	2.893E-03	2.868E-03	2.790E-03	2.608E-03	2.227E-03	1.690E-03	8.855E-04	3.685E-02
IV=	17	4.837E-03	4.825E-03	4.786E-03	4.651E-03	4.391E-03	3.921E-03	3.304E-03	2.158E-03	1.345E-01
IV=	16	6.817E-03	6.812E-03	6.786E-03	6.678E-03	6.429E-03	5.822E-03	4.477E-03	2.250E-03	2.181E-04
IV=	15	7.156E-03	7.174E-03	7.204E-03	7.198E-03	7.059E-03	6.370E-03	4.408E-03	1.566E-03	4.015E-04
IV=	14	5.361E-03	5.390E-03	5.466E-03	5.573E-03	5.614E-03	5.041E-03	3.015E-03	8.263E-04	5.914E-04
IV=	13	2.089E-03	2.111E-03	2.171E-03	2.305E-03	2.436E-03	2.249E-03	1.081E-03	2.810E-04	6.588E-04
IV=	12	1.189E-03	1.200E-03	1.210E-03	1.205E-03	1.197E-03	1.176E-03	9.371E-04	4.715E-04	6.581E-04
IV=	11	1.088E-01	8.473E-02	6.367E-02	4.075E-02	2.535E-02	1.338E-02	8.267E-03	3.731E-04	6.313E-04
IV=	10	1.729E-01	1.058E-01	6.620E-02	3.859E-02	2.327E-02	1.124E-02	3.561E-03	3.739E-05	6.050E-04
IV=	9	2.910E-01	1.598E-01	8.405E-02	4.208E-02	2.281E-02	9.920E-03	2.655E-03	1.091E-04	5.825E-04
IV=	8	6.037E-01	3.231E-01	1.429E-01	5.886E-02	2.731E-02	1.067E-02	2.844E-03	2.031E-04	5.618E-04
IV=	7	1.747E+00	9.357E-01	3.313E-01	1.048E-01	3.904E-02	1.329E-02	3.542E-03	3.002E-04	5.437E-04
IV=	6	7.605E+00	4.050E+00	1.045E+00	2.198E-01	6.048E-02	1.724E-02	4.413E-03	3.785E-04	5.295E-04
IV=	5	5.144E+01	1.777E+01	4.662E+00	5.150E-01	9.644E-02	2.253E-02	5.426E-03	4.428E-04	5.166E-04
IV=	4	5.215E+01	1.603E+01	5.156E+00	5.961E-01	1.120E-01	2.571E-02	6.113E-03	4.856E-04	5.035E-04
IV=	3	1.437E+01	1.006E+01	2.950E+00	3.777E-01	9.281E-02	2.526E-02	6.194E-03	4.978E-04	4.958E-04
IV=	2	6.769E+00	6.340E+00	1.408E+00	2.302E-01	7.545E-02	2.446E-02	6.346E-03	5.234E-04	4.777E-04
IV=	1	5.449E+01	4.145E+01	2.969E+01	1.783E-01	1.043E-01	5.086E-02	2.348E-02	1.481E-03	4.538E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF HI										
IV=	23	2.979E+05	2.978E+05	2.979E+05	2.978E+05	2.976E+05	2.973E+05	2.970E+05	2.968E+05	2.966E+05
IV=	22	2.967E+05	2.968E+05	2.969E+05	2.969E+05	2.969E+05	2.968E+05	2.966E+05	2.966E+05	2.965E+05
IV=	21	2.967E+05	2.967E+05	2.968E+05	2.969E+05	2.969E+05	2.968E+05	2.966E+05	2.965E+05	2.964E+05
IV=	20	2.966E+05	2.966E+05	2.966E+05	2.967E+05	2.967E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05
IV=	19	2.965E+05	2.965E+05	2.965E+05	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05
IV=	18	2.965E+05	2.965E+05	2.965E+05	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05
IV=	17	2.965E+05	2.965E+05	2.966E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05
IV=	16	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05
IV=	15	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05
IV=	14	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05

IV= 13	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 12	2.964E+05	2.964E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 11	2.962E+05									
IV= 10	2.962E+05									
IV= 9	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 8	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 7	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 6	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 5	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 4	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 3	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 2	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 1	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IX= 1	2	3	4	5	6	7	8	9		
FIELD VALUES OF VIST										
IV= 23	2.107E-01	2.105E-01	2.096E-01	2.071E-01	2.015E-01	1.896E-01	1.727E-01	1.549E-01	1.576E-01	
IV= 22	2.013E-01	2.013E-01	2.011E-01	2.004E-01	1.983E-01	1.923E-01	1.824E-01	1.704E-01	1.755E-01	
IV= 21	1.876E-01	1.878E-01	1.879E-01	1.877E-01	1.862E-01	1.812E-01	1.728E-01	1.616E-01	1.678E-01	
IV= 20	1.912E-01	1.911E-01	1.909E-01	1.901E-01	1.877E-01	1.817E-01	1.721E-01	1.591E-01	1.660E-01	
IV= 19	2.274E-01	2.273E-01	2.271E-01	2.270E-01	2.242E-01	2.129E-01	1.963E-01	1.761E-01	1.833E-01	
IV= 18	1.479E-02	1.477E-02	1.466E-02	1.427E-02	1.354E-02	1.235E-02	9.957E-03	1.556E-01		
IV= 17	1.754E-02	1.752E-02	1.747E-02	1.731E-02	1.698E-02	1.635E-02	1.544E-02	1.340E-02	1.242E-01	
IV= 16	1.966E-02	1.966E-02	1.963E-02	1.953E-02	1.928E-02	1.865E-02	1.709E-02	9.945E-03	3.327E-03	
IV= 15	1.998E-02	2.000E-02	2.003E-02	2.002E-02	1.989E-02	1.922E-02	1.700E-02	8.813E-03	4.077E-03	
IV= 14	1.818E-02	1.818E-02	1.826E-02	1.838E-02	1.843E-02	1.778E-02	1.498E-02	7.122E-03	4.839E-03	
IV= 13	1.325E-02	1.323E-02	1.323E-02	1.320E-02	1.359E-02	1.358E-02	1.064E-02	4.972E-03	4.809E-03	
IV= 12	8.704E-03	8.720E-03	8.755E-03	8.743E-03	8.723E-03	8.672E-03	8.039E-03	5.670E-03	4.807E-03	
IV= 11	2.474E-02	2.480E-02	2.072E-02	1.787E-02	1.525E-02	1.232E-02	1.050E-02	3.977E-03	4.741E-03	
IV= 10	4.387E-02	2.881E-02	2.019E-02	1.523E-02	1.184E-02	7.859E-03	3.879E-03	1.971E-03	4.674E-03	
IV= 9	5.859E-02	3.412E-02	2.159E-02	1.483E-02	1.073E-02	6.581E-03	3.203E-03	2.817E-03	4.616E-03	
IV= 8	7.063E-02	3.992E-02	2.417E-02	1.591E-02	1.103E-02	6.646E-03	3.597E-03	3.465E-03	4.560E-03	
IV= 7	7.543E-02	4.272E-02	2.674E-02	1.762E-02	1.203E-02	7.229E-03	4.159E-03	3.947E-03	4.511E-03	
IV= 6	6.771E-02	3.938E-02	2.684E-02	1.900E-02	1.316E-02	7.880E-03	4.596E-03	4.264E-03	4.471E-03	
IV= 5	5.674E-02	3.382E-02	2.176E-02	1.863E-02	1.395E-02	8.459E-03	4.910E-03	4.493E-03	4.435E-03	
IV= 4	4.985E-02	3.040E-02	2.193E-02	1.826E-02	1.425E-02	8.776E-03	5.057E-03	4.634E-03	4.397E-03	
IV= 3	4.833E-02	3.565E-02	2.711E-02	2.218E-02	1.505E-02	8.925E-03	5.050E-03	4.672E-03	4.374E-03	
IV= 2	4.204E-02	3.431E-02	3.099E-02	2.602E-02	1.723E-02	9.515E-03	5.130E-03	4.751E-03	4.320E-03	
IV= 1	4.956E-02	4.524E-02	4.048E-02	3.415E-02	2.856E-02	2.248E-02	1.737E-02	6.817E-03	4.247E-03	
IX= 1	2	3	4	5	6	7	8	9		
FIELD VALUES OF TMP1										
IV= 23	2.968E+02	2.968E+02	2.967E+02	2.966E+02	2.964E+02	2.962E+02	2.959E+02	2.956E+02	2.954E+02	
IV= 22	2.955E+02	2.956E+02	2.956E+02	2.957E+02	2.957E+02	2.956E+02	2.954E+02	2.953E+02	2.952E+02	
IV= 21	2.955E+02	2.955E+02	2.956E+02	2.957E+02	2.957E+02	2.956E+02	2.954E+02	2.953E+02	2.952E+02	
IV= 20	2.954E+02	2.954E+02	2.955E+02	2.955E+02	2.955E+02	2.954E+02	2.953E+02	2.952E+02	2.951E+02	
IV= 19	2.953E+02	2.953E+02	2.954E+02	2.954E+02	2.954E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	
IV= 18	2.953E+02	2.953E+02	2.954E+02	2.954E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.951E+02	
IV= 17	2.953E+02	2.953E+02	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.951E+02	2.951E+02	2.950E+02	
IV= 16	2.953E+02	2.953E+02	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	
IV= 15	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	
IV= 14	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	
IV= 13	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	
IV= 12	2.952E+02	2.952E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	
IV= 11	2.950E+02									
IV= 10	2.950E+02									
IV= 9	2.950E+02									
IV= 8	2.950E+02									
IV= 7	2.950E+02									
IV= 6	2.950E+02									
IV= 5	2.950E+02									
IV= 4	2.950E+02									
IV= 3	2.950E+02									
IV= 2	2.950E+02									
IV= 1	2.950E+02									
IX= 1	2	3	4	5	6	7	8	9		
FIELD VALUES OF RHO1										
IV= 23	1.194E+00	1.194E+00	1.194E+00	1.194E+00	1.195E+00	1.196E+00	1.197E+00	1.199E+00	1.199E+00	
IV= 22	1.199E+00	1.199E+00	1.198E+00	1.198E+00	1.198E+00	1.198E+00	1.199E+00	1.199E+00	1.199E+00	
IV= 21	1.199E+00	1.199E+00	1.198E+00	1.198E+00	1.198E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00	

IY= 20	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IY= 19	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IY= 18	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IY= 17	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IY= 16	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IY= 15	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IY= 14	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 13	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 12	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 11	1.201E+00								
IY= 10	1.201E+00								
IY= 9	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 8	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 7	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 6	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 5	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 4	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 3	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 2	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 1	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IX= 1	2	3	4	5	6	7	8	9	

 TIME STEP= 1 SWEEP NO= 70 ISLAB NO= 13 ISTEP NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 13, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF PI

IY= 23	-6.129E-01	-6.093E-01	-6.120E-01	-6.167E-01	-6.222E-01	-6.274E-01	-6.296E-01	-6.115E-01	-6.250E-01
IY= 22	-6.121E-01	-6.092E-01	-6.052E-01	-6.096E-01	-6.154E-01	-6.215E-01	-6.252E-01	-6.083E-01	-6.185E-01
IY= 21	-7.270E-01	-7.235E-01	-7.238E-01	-7.243E-01	-7.246E-01	-7.239E-01	-7.222E-01	-7.222E-01	-7.118E-01
IY= 20	-8.565E-01	-8.562E-01	-8.560E-01	-8.553E-01	-8.490E-01	-8.492E-01	-8.104E-01	-8.278E-01	
IY= 19	-1.182E+00	-1.189E+00	-1.186E+00	-1.180E+00	-1.169E+00	-1.147E+00	-1.116E+00	-1.035E+00	-1.045E+00
IY= 18	-2.696E+00	-2.705E+00	-2.692E+00	-2.660E+00	-2.595E+00	-2.452E+00	-2.210E+00	-1.715E+00	-1.442E+00
IY= 17	-4.764E+00	-4.770E+00	-4.722E+00	-4.613E+00	-4.415E+00	-4.050E+00	-3.538E+00	-2.602E+00	-1.456E+00
IY= 16	-8.508E+00	-8.507E+00	-8.439E+00	-8.260E+00	-7.931E+00	-7.335E+00	-6.637E+00	-5.892E+00	-1.028E+00
IY= 15	-8.545E+00	-8.575E+00	-8.617E+00	-8.607E+00	-8.487E+00	-8.098E+00	-7.479E+00	-6.455E+00	-1.178E+00
IY= 14	-8.821E+00	-8.942E+00	-9.136E+00	-9.301E+00	-9.400E+00	-9.256E+00	-8.798E+00	-7.598E+00	-1.179E+00
IY= 13	-7.245E+00	-7.266E+00	-7.311E+00	-7.383E+00	-7.539E+00	-7.758E+00	-7.787E+00	-7.084E+00	-1.141E+00
IY= 12	-5.325E+00	-5.319E+00	-5.309E+00	-5.325E+00	-5.490E+00	-6.021E+00	-6.657E+00	-6.631E+00	-1.104E+00
IY= 11	-3.261E+01	-3.294E+01	-3.358E+01	-3.356E+01	-3.317E+01	-3.190E+01	-3.058E+01	-2.446E+01	-1.070E+00
IY= 10	-3.690E+01	-3.714E+01	-3.756E+01	-3.635E+01	-3.488E+01	-3.294E+01	-3.140E+01	-2.503E+01	-1.046E+00
IY= 9	-4.792E+01	-4.760E+01	-4.605E+01	-4.210E+01	-3.805E+01	-3.479E+01	-3.279E+01	-2.587E+01	-1.029E+00
IY= 8	-7.637E+01	-7.375E+01	-6.514E+01	-5.273E+01	-4.296E+01	-3.738E+01	-3.463E+01	-2.696E+01	-1.015E+00
IY= 7	-1.642E+02	-1.526E+02	-1.104E+02	-7.176E+01	-4.974E+01	-4.039E+01	-3.664E+01	-2.815E+01	-1.003E+00
IY= 6	-4.957E+02	-4.524E+02	-2.170E+02	-1.006E+02	-5.705E+01	-4.315E+01	-3.840E+01	-2.919E+01	-9.926E-01
IY= 5	-1.650E+03	-1.901E+03	-4.407E+02	-1.362E+02	-6.347E+01	-4.552E+01	-4.000E+01	-3.015E+01	-9.834E-01
IY= 4	-1.196E+03	-1.751E+03	-4.412E+02	-1.374E+02	-6.463E+01	-4.687E+01	-4.152E+01	-3.101E+01	-9.744E-01
IY= 3	-1.529E+03	-1.594E+03	-3.361E+02	-1.145E+02	-6.072E+01	-4.655E+01	-4.176E+01	-3.144E+01	-9.681E-01
IY= 2	-2.434E+02	-2.452E+02	-1.461E+02	-8.612E+01	-5.738E+01	-4.651E+01	-4.235E+01	-3.190E+01	-9.631E-01
IY= 1	-8.571E+01	-8.721E+01	-7.958E+01	-6.549E+01	-5.307E+01	-4.590E+01	-4.253E+01	-3.216E+01	-9.585E-01
IX= 1	2	3	4	5	6	7	8	9	

FIELD VALUES OF U1

IY= 23	4.870E-03	8.990E-03	1.262E-02	1.217E-02	5.690E-03	-5.769E-03	-1.934E-02	1.700E-02	
IY= 22	1.116E-02	2.146E-02	3.390E-02	4.092E-02	4.006E-02	2.813E-02	7.394E-03	3.088E-02	
IY= 21	5.122E-03	9.704E-03	1.461E-02	1.596E-02	1.127E-02	-4.097E-04	-1.693E-02	2.225E-02	
IY= 20	3.530E-04	3.344E-04	-1.062E-03	-4.911E-03	-1.417E-02	-2.708E-02	-4.108E-02	1.407E-02	
IY= 19	-6.466E-03	-1.319E-02	-2.478E-02	-3.907E-02	-6.258E-02	-8.816E-02	-1.083E-01	-2.280E-02	
IY= 18	-1.294E-02	-2.627E-02	-4.965E-02	-8.055E-02	-1.377E-01	-2.172E-01	-3.134E-01	-2.178E-01	
IY= 17	-3.032E-02	-5.822E-02	-1.044E-01	-1.589E-01	-2.526E-01	-3.937E-01	-6.286E-01	-7.763E-01	
IY= 16	-4.953E-02	-1.036E-01	-2.003E-01	-3.150E-01	-4.867E-01	-6.493E-01	-7.120E-01	-7.728E-07	
IY= 15	-4.017E-02	-9.508E-02	-2.120E-01	-3.587E-01	-5.750E-01	-7.609E-01	-7.897E-01	-3.184E-13	
IY= 14	3.707E-02	1.398E-03	-1.494E-01	-3.509E-01	-6.348E-01	-8.630E-01	-8.882E-01	-7.940E-20	
IY= 13	3.727E-02	1.591E-02	-9.961E-02	-2.597E-01	-4.948E-01	-7.219E-01	-7.818E-01	4.893E-18	
IY= 12	1.621E-02	1.002E-02	-1.679E-02	-1.015E-02	6.093E-02	1.447E-01	-2.893E-02	5.631E-11	
IY= 11	-7.457E-01	-1.364E+00	-2.091E+00	-2.545E+00	-2.844E+00	-2.815E+00	-2.460E+00	1.196E-18	
IY= 10	-9.397E-01	-1.676E+00	-2.451E+00	-2.843E+00	-3.005E+00	-2.872E+00	-2.480E+00	3.231E-26	
IY= 9	-1.316E+00	-2.276E+00	-3.104E+00	-3.344E+00	-3.255E+00	-2.947E+00	-2.512E+00	2.908E-26	
IX= 1	2	3	4	5	6	7	8	9	

IV=	8	-2.136E+00	-3.545E+00	-4.326E+00	-4.190E+00	-3.642E+00	-5.071E+00	-2.567E+00	2.908E-26	
IV=	7	-3.960E+00	-6.458E+00	-6.646E+00	-5.563E+00	-4.215E+00	-3.288E+00	-2.672E+00	2.908E-26	
IV=	6	-7.418E+00	-1.332E+01	-1.051E+01	-7.390E+00	-4.870E+00	-3.529E+00	-2.780E+00	2.585E-26	
IV=	5	-1.600E+01	-3.647E+01	-1.718E+01	-9.706E+00	-5.575E+00	-3.777E+00	-2.886E+00	3.231E-26	
IV=	4	-1.761E+01	-4.056E+01	-1.890E+01	-1.046E+01	-5.858E+00	-3.901E+00	-2.960E+00	3.554E-26	
IV=	3	-1.195E+01	-2.960E+01	-1.459E+01	-8.999E+00	-5.525E+00	-3.827E+00	-2.965E+00	1.616E-26	
IV=	2	-6.526E+00	-1.121E+01	-9.500E+00	-7.135E+00	-4.964E+00	-3.699E+00	-2.974E+00	4.847E-26	
IV=	1	-3.284E+00	-5.127E+00	-5.780E+00	-5.289E+00	-4.327E+00	-3.509E+00	-2.948E+00	4.847E-26	
IX=	1	2	3	4	5	6	7	8		
FIELD VALUES OF V1										
IV=	22	-2.906E-01	-2.855E-01	-2.738E-01	-2.524E-01	-2.219E-01	-1.851E-01	-1.502E-01	-1.186E-01	-1.116E-01
IV=	21	-4.555E-01	-4.541E-01	-4.499E-01	-4.411E-01	-4.269E-01	-4.054E-01	-3.777E-01	-3.404E-01	-3.494E-01
IV=	20	-5.777E-01	-5.780E-01	-5.775E-01	-5.749E-01	-5.682E-01	-5.517E-01	-5.222E-01	-4.728E-01	-4.939E-01
IV=	19	-7.981E-01	-7.997E-01	-8.019E-01	-8.032E-01	-7.994E-01	-7.792E-01	-7.343E-01	-6.543E-01	-6.848E-01
IV=	18	-1.455E+00	-1.458E+00	-1.467E+00	-1.477E+00	-1.476E+00	-1.432E+00	-1.313E+00	-1.077E+00	-1.032E+00
IV=	17	-1.781E+00	-1.788E+00	-1.800E+00	-1.814E+00	-1.816E+00	-1.769E+00	-1.625E+00	-1.275E+00	-1.009E+00
IV=	16	-2.495E+00	-2.500E+00	-2.516E+00	-2.536E+00	-2.543E+00	-2.506E+00	-2.384E+00	-1.987E+00	-5.086E+00
IV=	15	-2.502E+00	-2.505E+00	-2.580E+00	-2.653E+00	-2.714E+00	-2.701E+00	-2.500E+00	-1.861E+00	-6.104E+00
IV=	14	-2.600E+00	-2.647E+00	-2.739E+00	-2.853E+00	-2.940E+00	-2.916E+00	-2.621E+00	-1.790E+00	-5.266E+00
IV=	13	-2.065E+00	-2.081E+00	-2.133E+00	-2.228E+00	-2.302E+00	-2.231E+00	-1.791E+00	-9.119E+00	-4.207E+00
IV=	12	-1.135E+00	-1.144E+00	-1.184E+00	-1.278E+00	-1.364E+00	-1.332E+00	-8.364E+00	-3.121E+00	-3.428E+00
IV=	11	-6.301E-09	-6.551E-09	-1.051E-08	-1.152E-08	-1.645E-08	-1.527E-08	-8.007E-09	-6.122E-11	-2.787E-01
IV=	10	-1.723E+00	-1.674E+00	-1.524E+00	-1.243E+00	-9.687E-01	-7.317E-01	-5.452E-01	-3.120E-01	-2.324E-01
IV=	9	-3.551E+00	-3.366E+00	-2.956E+00	-2.304E+00	-1.736E+00	-1.296E+00	-9.493E-01	-5.031E-01	-2.021E-01
IV=	8	-6.265E+00	-5.740E+00	-4.753E+00	-3.434E+00	-2.434E+00	-1.751E+00	-1.246E+00	-6.222E-01	-1.762E-01
IV=	7	-1.110E+00	-9.667E+00	-7.333E+00	-4.636E+00	-2.996E+00	-2.031E+00	-1.392E+00	-6.609E+00	-1.525E+00
IV=	6	-2.059E+01	-1.706E+01	-1.050E+01	-5.619E+00	-3.242E+00	-2.069E+00	-1.360E+00	-6.143E+00	-1.305E+00
IV=	5	-3.797E+01	-3.150E+01	-1.305E+01	-5.627E+00	-2.990E+00	-1.876E+00	-1.215E+00	-5.319E+00	-1.119E+00
IV=	4	-9.865E+00	-7.924E+00	-4.665E+00	-2.613E+00	-1.816E+00	-1.352E+00	-9.263E+00	-4.055E+00	-9.086E+00
IV=	3	1.885E+01	1.441E+01	6.230E+00	1.536E+00	-1.720E+00	-6.387E+00	-5.587E+00	-2.618E+00	-6.798E+00
IV=	2	3.834E+01	3.021E+01	9.599E+00	2.463E+00	2.602E+00	-3.816E+00	-4.127E+00	-2.062E+00	-5.739E+00
IV=	1	1.010E+01	8.787E+00	4.846E+00	1.889E+00	5.352E+00	-1.665E+00	-1.353E+00	-8.209E+00	-2.858E+00
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										
IV=	23	-1.076E+00	-9.677E-01	-8.677E-01	-6.335E-01	-4.080E-01	-2.131E-01	-6.679E-02	-1.121E-08	
IV=	22	-6.599E-01	-6.422E-01	-5.993E-01	-5.168E-01	-3.948E-01	-2.431E-01	-1.033E-01	4.873E-03	6.076E-02
IV=	21	-4.305E-01	-4.169E-01	-3.843E-01	-3.215E-01	-2.283E-01	-1.106E-01	-3.073E-03	7.626E-02	1.233E-01
IV=	20	-3.111E-01	-2.994E-01	-2.716E-01	-2.178E-01	-1.383E-01	-3.764E-02	5.267E-02	1.158E-01	1.604E-01
IV=	19	-4.322E-01	-4.209E-01	-3.930E-01	-3.376E-01	-2.543E-01	-1.439E-01	-3.756E-02	5.004E-02	1.074E-01
IV=	18	-9.599E-01	-9.479E-01	-9.170E-01	-8.542E-01	-7.545E-01	-6.068E-01	-4.329E-01	-2.149E-01	-4.964E-02
IV=	17	-1.793E+00	-1.779E+00	-1.743E+00	-1.668E+00	-1.548E+00	-1.353E+00	-1.077E+00	-6.056E+00	-1.642E+00
IV=	16	-7.517E-07	-7.519E-07	-1.125E-06	-1.112E-06	-1.442E-06	-1.315E-06	-1.063E-06	-5.623E-07	3.509E-01
IV=	15	5.425E-10	5.926E-10	1.050E-09	1.269E-09	1.930E-09	1.935E-09	1.736E-09	9.440E-10	8.657E-01
IV=	14	1.351E+00	1.658E+00	1.974E+00	2.162E+00	2.230E+00	2.183E+00	1.991E+00	1.466E+00	9.072E-01
IV=	13	2.415E+00	2.634E+00	2.862E+00	2.985E+00	2.997E+00	2.872E+00	2.567E+00	1.865E+00	9.214E-01
IV=	12	3.222E+00	3.312E+00	3.406E+00	3.448E+00	3.432E+00	3.301E+00	2.942E+00	1.868E+00	9.218E-01
IV=	11	5.174E+00	4.330E+00	3.507E+00	2.479E+00	1.526E+00	2.851E+00	-8.163E+00	-1.076E+00	9.130E-01
IV=	10	4.738E+00	3.812E+00	3.025E+00	2.091E+00	1.257E+00	1.404E+00	-7.796E+00	-8.628E+00	9.027E+00
IV=	9	3.959E+00	2.982E+00	2.326E+00	1.653E+00	1.080E+00	2.097E+00	-4.807E+00	-5.274E+00	8.920E+00
IV=	8	2.443E+00	1.508E+00	1.231E+00	1.109E+00	9.859E+00	4.756E+00	-6.302E+00	-1.397E+00	8.813E+00
IV=	7	-8.593E-01	-1.516E+00	-6.620E+00	3.436E+00	9.011E+00	7.935E+00	4.756E+00	1.744E+00	8.716E+00
IV=	6	-8.292E+00	-7.571E+00	-3.625E+00	-6.435E+00	7.788E+00	1.026E+00	7.717E+00	3.420E+00	8.638E+00
IV=	5	-8.640E-05	-1.800E+00	-8.426E+00	-1.838E+00	6.618E+00	1.221E+00	9.763E+00	4.392E+00	8.562E+00
IV=	4	3.096E-07	-1.487E+00	-9.844E+00	-2.091E+00	7.712E+00	1.400E+00	1.105E+00	4.910E+00	8.489E+00
IV=	3	-2.372E-05	-4.653E-05	-5.578E+00	-8.275E+00	1.126E+00	1.547E+00	1.169E+00	5.109E+00	8.450E+00
IV=	2	-2.944E+00	-3.553E+00	-1.237E+00	8.366E+00	1.821E+00	1.801E+00	1.259E+00	5.343E+00	8.344E+00
IV=	1	3.211E+00	2.410E+00	2.367E+00	2.502E+00	2.532E+00	2.046E+00	1.340E+00	5.561E+00	8.200E+00
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IV=	23	3.574E-01	3.570E-01	3.550E-01	3.449E-01	3.190E-01	2.697E-01	2.110E-01	1.545E-01	1.384E-01
IV=	22	2.578E-01	2.574E-01	2.558E-01	2.505E-01	2.379E-01	2.127E-01	1.791E-01	1.420E-01	1.333E-01
IV=	21	1.969E-01	1.967E-01	1.962E-01	1.937E-01	1.867E-01	1.706E-01	1.475E-01	1.206E-01	1.178E-01
IV=	20	1.711E-01	1.714E-01	1.718E-01	1.712E-01	1.674E-01	1.558E-01	1.375E-01	1.146E-01	1.154E-01
IV=	19	2.965E-01	2.990E-01	3.020E-01	3.037E-01	2.998E-01	2.808E-01	2.458E-01	1.926E-01	1.827E-01
IV=	18	5.057E-01	5.271E-01	5.391E-01	5.408E-01	5.277E-01	4.869E-01	4.248E-01	3.262E-01	3.160E-01
IV=	17	7.825E-01	7.927E-01	8.151E-01	8.393E-01	8.561E-01	8.550E-01	8.343E-01	7.342E-01	7.955E-01
IV=	16	3.523E-02	3.561E-02	3.663E-02	3.808E-02	3.947E-02	3.960E-02	3.617E-02	2.286E-02	3.446E-03
IV=	15	3.659E-02	3.752E-02	3.960E-02	4.247E-02	4.524E-02	4.587E-02	3.991E-02	2.087E-02	7.754E-03

IV=	14	5.548E-02	5.886E-02	6.666E-02	7.281E-02	7.528E-02	7.300E-02	6.181E-02	2.517E-02	7.588E-03
IV=	13	8.694E-02	9.256E-02	1.042E-01	1.133E-01	1.145E-01	1.015E-01	7.326E-02	2.351E-02	7.244E-03
IV=	12	5.929E-02	6.235E-02	6.564E-02	6.712E-02	6.655E-02	6.203E-02	5.024E-02	2.217E-02	6.924E-03
IV=	11	1.486E-01	1.105E-01	8.725E-02	6.746E-02	5.708E-02	4.887E-02	4.631E-02	1.513E-02	6.610E-03
IV=	10	4.380E-01	2.747E-01	1.780E-01	1.065E-01	6.918E-02	4.547E-02	3.653E-02	6.625E-03	6.365E-03
IV=	9	8.477E-01	4.711E-01	2.597E-01	1.244E-01	6.601E-02	3.572E-02	2.466E-02	4.515E-03	6.161E-03
IV=	8	1.725E+00	8.764E-01	4.171E-01	1.597E-01	6.671E-02	2.764E-02	1.274E-02	3.381E-03	5.976E-03
IV=	7	3.721E+00	1.795E+00	7.577E-01	2.411E-01	7.987E-02	2.531E-02	9.342E-03	3.417E-03	5.814E-03
IV=	6	8.391E+00	4.114E+00	1.557E+00	3.948E-01	1.109E-01	2.832E-02	9.353E-03	3.477E-03	5.687E-03
IV=	5	1.449E+01	5.905E+00	2.598E+00	5.941E-01	1.607E-01	3.642E-02	1.082E-02	3.246E-03	5.570E-03
IV=	4	1.306E+01	5.585E+00	2.706E+00	6.549E-01	1.887E-01	4.297E-02	1.164E-02	2.817E-03	5.458E-03
IV=	3	7.263E+00	5.079E+00	2.400E+00	6.164E-01	1.710E-01	4.181E-02	1.122E-02	2.552E-03	5.397E-03
IV=	2	3.643E+00	2.928E+00	1.386E+00	4.392E-01	1.450E-01	3.753E-02	1.064E-02	2.482E-03	5.262E-03
IV=	1	1.149E+01	1.268E+01	1.844E-01	1.917E-01	1.563E-01	1.071E-01	6.978E-02	9.455E-03	5.094E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IV=	23	5.364E-02	5.355E-02	5.303E-02	5.049E-02	4.428E-02	3.364E-02	2.258E-02	1.350E-02	1.064E-02
IV=	22	2.983E-02	2.972E-02	2.934E-02	2.816E-02	2.558E-02	2.102E-02	1.566E-02	1.051E-02	8.953E-03
IV=	21	1.933E-02	1.917E-02	1.900E-02	1.844E-02	1.715E-02	1.459E-02	1.134E-02	8.050E-03	7.347E-03
IV=	20	1.482E-02	1.483E-02	1.482E-02	1.462E-02	1.392E-02	1.223E-02	9.871E-03	7.307E-03	7.041E-03
IV=	19	3.517E-02	3.578E-02	3.654E-02	3.696E-02	3.626E-02	3.274E-02	2.658E-02	1.788E-02	1.545E-02
IV=	18	8.844E-02	9.537E-02	9.864E-02	9.800E-02	9.330E-02	8.232E-02	6.748E-02	4.524E-02	4.124E-02
IV=	17	2.487E-01	2.513E-01	2.584E-01	2.651E-01	2.679E-01	2.658E-01	2.664E-01	2.382E-01	2.615E-01
IV=	16	5.933E-03	6.028E-03	6.298E-03	6.666E-03	7.034E-03	7.076E-03	6.172E-03	3.924E-03	2.916E-04
IV=	15	6.289E-03	6.521E-03	7.070E-03	7.852E-03	8.632E-03	8.813E-03	7.153E-03	3.424E-03	9.842E-04
IV=	14	1.191E-02	1.321E-02	1.651E-02	1.906E-02	2.006E-02	1.960E-02	1.675E-02	5.488E-03	9.529E-04
IV=	13	2.792E-02	3.137E-02	3.897E-02	4.453E-02	4.472E-02	3.825E-02	2.655E-02	4.952E-03	8.888E-04
IV=	12	1.794E-02	1.934E-02	2.089E-02	2.160E-02	2.133E-02	1.919E-02	1.399E-02	4.317E-03	8.306E-04
IV=	11	8.652E-02	5.552E-02	3.901E-02	2.647E-02	2.060E-02	1.632E-02	1.506E-02	2.164E-03	7.747E-04
IV=	10	4.173E-01	2.403E-01	1.363E-01	7.097E-02	4.625E-02	3.816E-02	4.336E-02	7.406E-04	7.521E-04
IV=	9	1.203E+00	5.929E-01	2.671E-01	1.009E-01	5.047E-02	3.365E-02	3.201E-02	4.167E-04	6.971E-04
IV=	8	4.401E+00	1.873E+00	6.522E-01	1.637E-01	5.401E-02	2.356E-02	1.249E-02	2.700E-04	6.660E-04
IV=	7	2.007E+01	7.967E+00	2.181E+00	3.606E-01	7.197E-02	1.857E-02	6.159E-03	2.744E-04	6.371E-04
IV=	6	9.825E+01	4.475E+01	1.049E+01	9.621E-01	1.232E-01	1.883E-02	4.307E-03	2.816E-04	6.182E-04
IV=	5	2.903E+02	9.744E+01	3.048E+01	2.252E+00	3.254E+01	2.603E+02	4.059E+03	2.540E+04	5.992E+04
IV=	4	3.109E+02	9.993E+01	3.407E+01	2.793E+00	3.161E+01	2.884E+02	4.117E+03	2.054E+04	5.813E+04
IV=	3	1.380E+02	7.945E+01	2.383E+01	1.958E+00	2.397E+01	2.664E+02	3.843E+03	1.771E+04	5.716E+04
IV=	2	4.529E+01	3.134E+01	8.694E+00	8.582E-01	1.354E+01	2.038E+02	3.471E+03	1.700E+04	5.503E+04
IV=	1	5.236E-02	6.071E-02	1.064E-01	1.129E-01	8.309E-02	4.714E-02	2.478E-02	1.249E-03	5.241E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	2.990E+05	2.989E+05	2.989E+05	2.987E+05	2.984E+05	2.979E+05	2.975E+05	2.970E+05	2.968E+05
IV=	22	2.972E+05	2.972E+05	2.973E+05	2.974E+05	2.973E+05	2.971E+05	2.969E+05	2.967E+05	2.967E+05
IV=	21	2.971E+05	2.971E+05	2.972E+05	2.973E+05	2.973E+05	2.971E+05	2.969E+05	2.967E+05	2.966E+05
IV=	20	2.969E+05	2.969E+05	2.970E+05	2.970E+05	2.970E+05	2.969E+05	2.967E+05	2.965E+05	2.964E+05
IV=	19	2.967E+05	2.967E+05	2.968E+05	2.968E+05	2.968E+05	2.967E+05	2.965E+05	2.964E+05	2.964E+05
IV=	18	2.967E+05	2.967E+05	2.968E+05	2.968E+05	2.967E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05
IV=	17	2.966E+05	2.966E+05	2.967E+05	2.967E+05	2.967E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05
IV=	16	2.965E+05	2.966E+05	2.966E+05	2.967E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05
IV=	15	2.965E+05	2.965E+05	2.966E+05	2.966E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05
IV=	14	2.965E+05	2.965E+05	2.965E+05	2.966E+05	2.965E+05	2.965E+05	2.963E+05	2.962E+05	2.962E+05
IV=	13	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05
IV=	12	2.966E+05	2.964E+05	2.965E+05	2.964E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05
IV=	11	2.962E+05								
IV=	10	2.962E+05								
IV=	9	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	8	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	7	2.960E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	6	2.958E+05	2.958E+05	2.960E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	5	2.948E+05	2.946E+05	2.958E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	4	2.952E+05	2.947E+05	2.958E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	3	2.949E+05	2.949E+05	2.959E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	2	2.960E+05	2.960E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	1	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IV=	23	2.143E-01	2.142E-01	2.138E-01	2.120E-01	2.068E-01	1.947E-01	1.775E-01	1.591E-01	1.621E-01
IV=	22	2.005E-01	2.006E-01	2.008E-01	2.005E-01	1.991E-01	1.938E-01	1.844E-01	1.726E-01	1.785E-01

IY= 21	1.814E-01	1.817E-01	1.823E-01	1.830E-01	1.829E-01	1.796E-01	1.727E-01	1.627E-01	1.701E-01
IY= 20	1.779E-01	1.783E-01	1.792E-01	1.805E-01	1.811E-01	1.787E-01	1.723E-01	1.618E-01	1.702E-01
IY= 19	2.250E-01	2.249E-01	2.246E-01	2.246E-01	2.231E-01	2.167E-01	2.045E-01	1.868E-01	1.945E-01
IY= 18	2.603E-01	2.622E-01	2.652E-01	2.686E-01	2.686E-01	2.592E-01	2.407E-01	2.117E-01	2.179E-01
IY= 17	2.216E-01	2.252E-01	2.314E-01	2.391E-01	2.462E-01	2.476E-01	2.352E-01	2.036E-01	2.177E-01
IY= 16	1.883E-02	1.893E-02	1.920E-02	1.958E-02	1.993E-02	1.997E-02	1.908E-02	1.199E-02	3.665E-03
IY= 15	1.919E-02	1.943E-02	1.996E-02	2.067E-02	2.134E-02	2.149E-02	2.004E-02	1.145E-02	5.497E-03
IY= 14	2.326E-02	2.362E-02	2.423E-02	2.503E-02	2.545E-02	2.447E-02	2.053E-02	1.040E-02	5.438E-03
IY= 13	2.437E-02	2.458E-02	2.506E-02	2.596E-02	2.637E-02	2.423E-02	1.819E-02	1.005E-02	5.314E-03
IY= 12	1.764E-02	1.804E-02	1.856E-02	1.877E-02	1.869E-02	1.804E-02	1.624E-02	1.025E-02	5.195E-03
IY= 11	2.296E-02	1.981E-02	1.761E-02	1.547E-02	1.423E-02	1.317E-02	1.282E-02	7.150E-03	5.076E-03
IY= 10	4.128E-02	2.807E-02	2.092E-02	1.439E-02	9.312E-03	4.877E-03	2.770E-03	5.334E-03	4.981E-03
IY= 9	5.377E-02	3.364E-02	2.273E-02	1.581E-02	7.772E-03	3.413E-03	1.710E-03	4.403E-03	4.800E-03
IY= 8	6.083E-02	3.692E-02	2.401E-02	1.402E-02	7.416E-03	2.917E-03	1.169E-03	3.811E-03	4.826E-03
IY= 7	6.207E-02	3.642E-02	2.369E-02	1.450E-02	7.978E-03	3.105E-03	1.275E-03	3.831E-03	4.761E-03
IY= 6	6.443E-02	3.404E-02	2.079E-02	1.458E-02	8.985E-03	3.833E-03	1.828E-03	3.864E-03	4.708E-03
IY= 5	6.507E-02	3.221E-02	1.992E-02	1.411E-02	9.870E-03	4.968E-03	2.595E-03	3.733E-03	4.659E-03
IY= 4	4.939E-02	2.810E-02	1.935E-02	1.382E-02	1.014E-02	5.763E-03	2.962E-03	3.478E-03	4.612E-03
IY= 3	3.441E-02	2.922E-02	2.175E-02	1.747E-02	1.098E-02	5.905E-03	2.951E-03	3.311E-03	4.587E-03
IY= 2	2.637E-02	2.462E-02	1.988E-02	2.024E-02	1.398E-02	6.221E-03	2.934E-03	3.266E-03	4.529E-03
IY= 1	2.270E-02	2.385E-02	2.875E-02	2.932E-02	2.648E-02	2.192E-02	1.769E-02	6.441E-03	4.456E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IY= 23	2.978E+02	2.978E+02	2.977E+02	2.975E+02	2.972E+02	2.967E+02	2.963E+02	2.959E+02	2.957E+02
IY= 22	2.960E+02	2.961E+02	2.962E+02	2.962E+02	2.961E+02	2.960E+02	2.957E+02	2.956E+02	2.956E+02
IY= 21	2.959E+02	2.959E+02	2.960E+02	2.961E+02	2.959E+02	2.957E+02	2.955E+02	2.953E+02	2.954E+02
IY= 20	2.957E+02	2.957E+02	2.958E+02	2.958E+02	2.958E+02	2.957E+02	2.955E+02	2.953E+02	2.952E+02
IY= 19	2.955E+02	2.956E+02	2.956E+02	2.956E+02	2.956E+02	2.955E+02	2.954E+02	2.952E+02	2.952E+02
IY= 18	2.955E+02	2.956E+02	2.956E+02	2.956E+02	2.956E+02	2.955E+02	2.953E+02	2.952E+02	2.952E+02
IY= 17	2.954E+02	2.955E+02	2.955E+02	2.955E+02	2.955E+02	2.954E+02	2.952E+02	2.951E+02	2.951E+02
IY= 16	2.954E+02	2.954E+02	2.954E+02	2.954E+02	2.954E+02	2.954E+02	2.952E+02	2.951E+02	2.951E+02
IY= 15	2.953E+02	2.954E+02	2.954E+02	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.951E+02	2.951E+02
IY= 14	2.953E+02	2.953E+02	2.954E+02	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02
IY= 13	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02
IY= 12	2.952E+02	2.953E+02	2.953E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02
IY= 11	2.950E+02								
IY= 10	2.950E+02								
IY= 8	2.950E+02								
IY= 7	2.950E+02								
IY= 6	2.950E+02								
IY= 5	2.950E+02								
IY= 4	2.950E+02								
IY= 3	2.950E+02								
IY= 2	2.950E+02								
IY= 1	2.950E+02								
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IY= 23	1.190E+00	1.190E+00	1.190E+00	1.191E+00	1.192E+00	1.194E+00	1.196E+00	1.197E+00	1.198E+00
IY= 22	1.197E+00	1.197E+00	1.196E+00	1.196E+00	1.196E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00
IY= 21	1.197E+00	1.197E+00	1.197E+00	1.196E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00	1.199E+00
IY= 20	1.198E+00	1.198E+00	1.198E+00	1.198E+00	1.198E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00
IY= 19	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.198E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00
IY= 18	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IY= 17	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IY= 16	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.201E+00
IY= 15	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.201E+00
IY= 14	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IY= 13	1.200E+00	1.201E+00	1.201E+00						
IY= 12	1.200E+00	1.201E+00	1.201E+00						
IY= 11	1.201E+00								
IY= 10	1.201E+00								
IY= 9	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 8	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 7	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 6	1.195E+00	1.196E+00	1.198E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 5	1.181E+00	1.178E+00	1.196E+00	1.199E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 4	1.187E+00	1.180E+00	1.196E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00

IY= 5	1.183E+00	1.182E+00	1.197E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IY= 2	1.198E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IY= 1	1.200E+00	1.201E+00	1.201E+00						
IX= 1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 20 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 20, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF P1

IY= 23	-7.086E-01	-7.260E-01	-7.536E-01	-7.913E-01	-8.261E-01	-8.512E-01	-8.623E-01	-8.356E-01	-8.595E-01
IY= 22	-8.073E-01	-8.022E-01	-8.100E-01	-8.220E-01	-8.348E-01	-8.455E-01	-8.506E-01	-8.270E-01	-8.438E-01
IY= 21	-8.872E-01	-8.851E-01	-8.857E-01	-8.863E-01	-8.865E-01	-8.851E-01	-8.826E-01	-8.569E-01	-8.720E-01
IY= 20	-9.152E-01	-9.154E-01	-9.151E-01	-9.144E-01	-9.133E-01	-9.113E-01	-9.092E-01	-8.860E-01	-9.002E-01
IY= 19	-9.249E-01	-9.244E-01	-9.244E-01	-9.251E-01	-9.267E-01	-9.304E-01	-9.368E-01	-9.276E-01	-9.444E-01
IY= 18	-9.156E-01	-9.130E-01	-9.137E-01	-9.152E-01	-9.196E-01	-9.327E-01	-9.636E-01	-1.009E+00	-1.098E+00
IY= 17	-9.101E-01	-9.073E-01	-9.082E-01	-9.098E-01	-9.148E-01	-9.315E-01	-9.794E-01	-1.107E+00	-1.370E+00
IY= 16	-8.979E-01	-8.976E-01	-8.972E-01	-8.974E-01	-9.000E-01	-9.167E-01	-9.805E-01	-1.252E+00	-2.599E+00
IY= 15	-2.486E+01	-2.753E+01	-3.034E+01	-3.194E+01	-3.324E+01	-3.399E+01	-3.540E+01	-2.394E+01	-5.224E+00
IY= 14	-2.994E+01	-3.115E+01	-3.247E+01	-3.341E+01	-3.415E+01	-3.434E+01	-3.416E+01	-2.691E+01	-1.791E+00
IY= 13	-3.835E+01	-3.859E+01	-3.858E+01	-3.850E+01	-3.786E+01	-3.682E+01	-3.568E+01	-2.789E+01	-1.621E+00
IY= 12	-4.472E+01	-4.509E+01	-4.511E+01	-4.417E+01	-4.255E+01	-4.007E+01	-3.780E+01	-2.896E+01	-1.446E+00
IY= 11	-9.198E+01	-8.647E+01	-6.571E+01	-5.824E+01	-7.015E+01	-7.206E+01	-2.702E+01	7.684E+01	-1.323E+00
IY= 10	-1.330E+02	-1.380E+02	-1.470E+02	-1.641E+02	-1.637E+02	-1.302E+02	-8.222E+01	-4.967E+02	-1.251E+00
IY= 9	-1.672E+02	-1.737E+02	-1.848E+02	-1.882E+02	-1.682E+02	-1.272E+02	-1.004E+02	-3.883E+01	-1.204E+00
IY= 8	-2.245E+02	-2.256E+02	-2.048E+02	-2.163E+02	-2.134E+02	-1.314E+02	-1.086E+02	-5.224E+01	-1.167E+00
IY= 7	-3.729E+02	-3.264E+02	-3.523E+02	-2.370E+02	-1.747E+02	-1.401E+02	-1.084E+02	-5.195E+01	-1.137E+00
IY= 6	-4.542E+03	-3.123E+03	-8.642E+02	-2.827E+02	-1.896E+02	-1.493E+02	-1.007E+02	-4.888E+01	-1.114E+00
IY= 5	2.505E+04	2.025E+04	-3.129E+03	-2.520E+02	-2.013E+02	-1.648E+02	-1.195E+02	-5.245E+01	-1.094E+00
IY= 4	2.889E+04	2.287E+04	-4.066E+03	-2.982E+02	-2.159E+02	-1.911E+02	-1.489E+02	-5.504E+01	-1.075E+00
IY= 3	2.224E+04	1.829E+04	-2.459E+03	-2.565E+02	-2.152E+02	-2.184E+02	-1.694E+02	-3.752E+01	-1.065E+00
IY= 2	-2.433E+03	-1.780E+03	-5.716E+02	-2.687E+02	-2.176E+02	-2.272E+02	-1.758E+02	-9.311E+00	-1.054E+00
IY= 1	-1.456E+02	-1.374E+02	-1.696E+02	-1.684E+02	-1.821E+02	-2.299E+02	-1.954E+02	1.529E+01	-1.047E+00
IX= 1	2	3	4	5	6	7	8	9	

FIELD VALUES OF U1

IY= 23	-1.390E-03	-5.891E-03	-1.704E-02	-3.115E-02	-4.751E-02	-5.890E-02	-6.495E-02	2.528E-03	
IY= 22	1.048E-02	1.938E-02	2.845E-02	3.094E-02	2.427E-02	7.903E-03	-1.474E-02	2.864E-02	
IY= 21	3.750E-03	6.714E-03	8.420E-03	5.591E-03	-5.271E-03	-2.130E-02	-3.857E-02	1.724E-02	
IY= 20	-9.395E-04	-2.218E-03	-5.711E-03	-1.177E-02	-2.341E-02	-3.678E-02	-4.968E-02	1.286E-02	
IY= 19	2.396E-03	4.715E-03	7.803E-03	1.025E-02	1.188E-02	9.084E-03	-3.391E-03	4.501E-02	
IY= 18	8.732E-03	1.739E-02	3.164E-02	4.925E-02	7.952E-02	1.138E-01	1.334E-01	1.725E-01	
IY= 17	1.226E-02	2.362E-02	4.370E-02	7.134E-02	1.254E-01	2.020E-01	2.881E-01	4.193E-01	
IY= 16	4.728E-03	1.335E-02	3.465E-02	7.110E-02	1.543E-01	2.984E-01	5.519E-01	1.135E+00	
IY= 15	-1.786E-00	-2.759E-00	-3.514E+00	-3.931E+00	-4.297E+00	-4.600E+00	-5.039E+00	-4.278E+00	
IY= 14	-5.442E-01	-9.774E-01	-1.490E+00	-1.874E+00	-2.228E+00	-2.419E+00	-2.526E+00	-2.955E-08	
IY= 13	-1.060E-01	-3.343E-01	-8.048E-01	-1.331E+00	-1.863E+00	-2.121E+00	-2.248E+00	-8.587E-18	
IY= 12	3.149E-01	2.433E-01	-1.715E-01	-6.538E-01	-1.338E+00	-1.909E+00	-2.246E+00	1.959E-15	
IY= 11	-3.650E-01	-1.020E+00	3.954E+00	1.277E+01	1.712E+01	1.767E+01	1.509E+01	1.180E-07	
IY= 10	1.704E-01	1.298E-01	1.692E+00	6.846E+00	1.048E+01	8.486E+00	4.750E+00	1.630E-08	
IY= 9	-1.351E-01	-4.355E-01	-5.672E-01	1.430E+00	4.438E+00	3.069E-01	-3.011E+00	5.038E-12	
IY= 8	-1.812E-00	-2.933E+00	-4.387E+00	-3.429E+00	-2.405E+00	-6.145E+00	-6.368E+00	1.814E-15	
IY= 7	-5.913E+00	-7.098E+00	-1.089E+01	-9.135E+00	-8.721E+00	-9.824E+00	-7.669E+00	4.655E-15	
IY= 6	-1.973E+01	-3.309E+01	-2.167E+01	-1.393E+01	-1.187E+01	-1.104E+01	-7.973E+00	1.165E-14	
IY= 5	9.416E+00	8.179E+01	-1.215E+01	-1.519E+01	-1.313E+01	-1.164E+01	-8.083E+00	3.638E-14	
IY= 4	1.181E+01	9.005E+01	-1.495E+01	-1.584E+01	-1.238E+01	-1.057E+01	-6.837E+00	1.341E-11	
IY= 3	7.767E+00	7.474E+01	-8.154E+00	-1.268E+01	-8.732E+00	-3.311E+00	-2.111E+00	4.850E-10	
IY= 2	-1.514E+01	-2.505E+01	-1.561E+01	-1.021E+01	-6.508E+00	-7.390E+01	8.368E-01	1.661E-08	
IY= 1	-4.090E+00	-4.696E+00	-6.454E+00	-5.789E+00	-4.401E+00	-4.187E+00	6.078E+00	8.192E-08	
IX= 1	2	3	4	5	6	7	8		

FIELD VALUES OF V1

IY= 22	-6.474E-01	-4.328E-01	-4.007E-01	-3.466E-01	-2.769E-01	-2.022E-01	-1.409E-01	-9.410E-02	-8.108E-02
IY= 21	-3.582E-01	-3.520E-01	-3.370E-01	-3.111E-01	-2.790E-01	-2.479E-01	-2.220E-01	-1.965E-01	-2.088E-01
IY= 20	-2.770E-01	-2.759E-01	-2.729E-01	-2.688E-01	-2.658E-01	-2.667E-01	-2.591E-01	-2.389E-01	-2.657E-01
IY= 19	-2.140E-01	-2.162E-01	-2.221E-01	-2.344E-01	-2.529E-01	-2.747E-01	-2.863E-01	-2.745E-01	-3.159E-01
IY= 18	-1.207E-01	-1.249E-01	-1.366E-01	-1.608E-01	-1.997E-01	-2.571E-01	-3.220E-01	-3.751E-01	-4.852E-01
IY= 17	-8.036E-02	-8.504E-02	-9.649E-02	-1.194E-01	-1.573E-01	-2.197E-01	-3.096E-01	-4.344E-01	-6.830E-01
IY= 16	-3.8C6E-02	-4.001E-02	-4.914E-02	-6.572E-02	-9.334E-02	-1.438E-01	-2.384E-01	-4.261E-01	-1.157E+00
IY= 15	-2.745E-12	-2.798E-12	-4.570E-12	-5.604E-12	-1.141E-11	-3.578E-11	-5.362E-11	-2.147E-07	-2.379E-00

IY= 14	-1.933E+00	-1.038E+00	-5.072E-01	-2.695E-01	-1.700E-01	-1.387E-01	-2.059E-01	-6.658E-01	6.389E-02
IY= 13	-2.729E+00	-1.607E+00	-8.959E-01	-4.896E-01	-2.611E-01	-1.549E-01	-1.999E-01	-2.427E-01	1.584E-01
IY= 12	-2.132E+00	-1.291E+00	-8.190E-01	-5.885E-01	-2.808E-01	-5.120E-02	-9.715E-02	-1.503E-01	1.764E-01
IY= 11	-4.858E-09	-3.050E-09	-2.751E-09	-1.875E-09	-1.091E-09	-1.608E-10	-2.433E-10	-1.633E-10	1.599E-01
IY= 10	-3.454E+00	-3.144E+00	-5.149E+00	-8.362E+00	-8.392E+00	-5.595E+00	-3.868E+00	-5.177E+00	1.387E-01
IY= 9	-2.753E+00	-3.532E+00	-4.711E+00	-6.291E+00	-7.601E+00	-4.654E+00	-3.440E+00	-5.698E+00	1.220E-01
IY= 8	-3.793E+00	-4.374E+00	-5.258E+00	-5.547E+00	-6.404E+00	-3.745E+00	-2.652E+00	-3.941E+00	1.069E-01
IY= 7	-7.489E+00	-7.231E+00	-7.792E+00	-6.123E+00	-5.611E+00	-2.476E+00	-7.854E-01	-1.449E+00	9.256E-02
IY= 6	-1.345E+01	-1.044E+01	-1.459E+01	-6.090E+00	-4.095E+00	-1.062E+00	1.147E+00	1.547E+00	7.917E-02
IY= 5	8.425E+01	7.111E+01	-2.415E+01	-2.532E+00	-2.854E+00	-1.498E+00	3.372E-01	2.558E+00	6.770E-02
IY= 4	7.482E+00	5.122E+00	-9.136E+00	-3.501E+00	-2.443E+00	-1.852E+00	4.874E-01	5.023E+00	5.471E-02
IY= 3	-1.633E+01	-1.129E+01	1.205E+01	1.842E+01	-1.719E+00	-2.124E+00	2.118E+00	7.788E+00	4.080E-02
IY= 2	-8.554E+01	-7.320E+01	2.033E+01	-5.171E+01	-1.244E+00	-1.612E+00	1.388E+00	8.191E+00	3.412E-02
IY= 1	4.597E+01	-9.007E+01	8.650E+00	3.141E+00	9.841E+01	-3.907E+01	1.251E+01	7.067E+00	1.675E-02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF WI									
IY= 23	-1.779E+00	-1.709E+00	-1.553E+00	-1.291E+00	-9.625E-01	-6.080E-01	-3.177E-01	-1.040E-01	-3.535E-09
IY= 22	-8.961E-01	-8.661E-01	-7.961E-01	-6.689E-01	-4.928E-01	-2.891E-01	-1.131E-01	1.568E-02	8.060E-02
IY= 21	-5.059E-01	-4.891E-01	-4.490E-01	-3.737E-01	-2.670E-01	-1.405E-01	-3.135E-02	4.567E-02	8.787E-02
IY= 20	-2.997E-01	-2.899E-01	-2.661E-01	-2.208E-01	-1.563E-01	-7.851E-02	-1.124E-02	3.559E-02	6.253E-02
IY= 19	-1.940E-01	-1.894E-01	-1.785E-01	-1.571E-01	-1.253E-01	-8.384E-02	-4.438E-02	-1.145E-02	2.806E-03
IY= 18	-1.139E-01	-1.127E-01	-1.101E-01	-1.042E-01	-9.375E-02	-7.669E-02	-5.690E-02	-3.443E-02	-2.319E-02
IY= 17	-6.198E-02	-6.228E-02	-6.336E-02	-6.441E-02	-6.448E-02	-6.208E-02	-5.767E-02	-4.437E-02	-4.179E-02
IY= 16	2.791E-02	2.557E-02	2.190E-02	1.650E-02	8.899E-03	-3.006E-04	-1.035E-02	-1.259E-02	-6.658E-03
IY= 15	3.719E+00	3.493E+00	3.273E+00	2.916E+00	2.499E+00	1.870E+00	1.181E+00	4.342E+01	9.550E-02
IY= 14	4.413E+00	4.803E+00	4.998E+00	4.843E+00	4.426E+00	3.599E+00	2.471E+00	1.143E+00	7.574E-01
IY= 13	5.481E+00	6.141E+00	6.654E+00	6.533E+00	5.955E+00	4.848E+00	3.311E+00	1.504E+00	1.056E+00
IY= 12	7.124E+00	7.699E+00	8.132E+00	8.046E+00	7.441E+00	5.971E+00	3.936E+00	1.745E+00	1.069E+00
IY= 11	1.003E+01	8.404E+00	2.491E+00	-4.479E+00	-9.682E+00	-1.231E+01	-1.349E+01	-1.386E+01	1.025E+00
IY= 10	1.231E+01	1.140E+01	8.981E+00	4.889E+00	-1.049E+00	-3.880E+00	-6.124E+00	-9.941E+00	1.001E+00
IY= 9	1.362E+01	1.235E+01	1.062E+01	7.319E+00	8.935E+01	-1.309E+00	-3.896E+00	-6.938E+00	9.737E-01
IY= 8	1.482E+01	1.221E+01	9.549E+00	5.040E+00	4.776E+01	-9.899E+01	-2.611E+00	-3.930E+00	9.497E-01
IY= 7	1.820E+01	1.241E+01	8.357E+00	3.186E+00	8.380E+01	-3.941E+02	-1.014E+00	-1.252E+00	9.293E-01
IY= 6	1.007E+02	6.768E+01	7.607E+00	3.595E+00	2.217E+00	1.066E+00	-4.689E+01	-9.740E+01	9.128E-01
IY= 5	7.592E+02	7.621E+02	7.046E+01	5.636E+00	3.093E+00	8.984E+01	-1.920E+00	-2.803E+00	8.985E-01
IY= 4	7.551E+02	7.607E+02	9.156E+01	7.814E+00	3.028E+00	1.155E+02	-3.423E+00	-5.237E+00	8.857E-01
IY= 3	7.602E+02	7.612E+02	6.268E+01	7.819E+00	3.746E+00	2.283E+01	-5.965E+00	-8.616E+00	8.767E-01
IY= 2	7.298E+01	4.986E+01	1.120E+01	8.659E+00	5.888E+00	1.139E+00	-6.928E+00	-1.078E+01	8.649E-01
IY= 1	1.372E+01	1.100E+01	9.071E+00	8.272E+00	7.621E+00	5.972E+00	-3.325E+00	-1.365E+01	8.502E-01
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE									
IY= 23	5.390E-01	5.498E-01	5.693E-01	5.748E-01	5.387E-01	4.450E-01	3.322E-01	2.294E-01	2.016E-01
IY= 22	3.535E-01	3.561E-01	3.537E-01	3.457E-01	3.221E-01	2.754E-01	2.189E-01	1.629E-01	1.534E-01
IY= 21	3.046E-01	2.041E-01	2.024E-01	1.969E-01	1.849E-01	1.635E-01	1.372E-01	1.099E-01	1.124E-01
IY= 20	1.129E-01	1.129E-01	1.130E-01	1.125E-01	1.104E-01	1.041E-01	9.408E-02	8.181E-02	9.034E-02
IY= 19	6.405E-02	6.468E-02	6.645E-02	6.970E-02	7.368E-02	7.650E-02	7.591E-02	7.193E-02	8.630E-02
IY= 18	5.286E-02	5.298E-02	5.472E-02	5.997E-02	6.913E-02	8.288E-02	9.955E-02	1.211E-01	1.581E-01
IY= 17	5.003E-02	4.692E-02	4.718E-02	5.262E-02	6.461E-02	8.906E-02	1.349E-01	2.436E-01	4.682E-01
IY= 16	1.332E-05	1.238E-05	1.688E-05	4.254E-05	1.483E-04	5.065E-04	1.560E-03	5.343E-03	6.086E-01
IY= 15	1.050E-01	1.070E-01	1.248E-01	1.348E-01	1.399E-01	1.472E-01	1.322E-01	1.770E+00	
IY= 14	2.085E-01	3.552E-01	4.004E-01	3.063E-01	1.853E-01	8.771E-02	3.895E-02	1.049E-02	4.495E-03
IY= 13	2.803E-01	3.626E-01	3.024E-01	2.440E-01	1.707E-01	1.012E-01	5.131E-02	1.533E-02	8.212E-03
IY= 12	2.541E-01	2.929E-01	3.235E-01	3.180E-01	2.793E-01	1.959E-01	1.070E-01	2.319E-02	8.389E-03
IY= 11	4.918E-01	3.570E-01	5.021E-02	4.423E-01	1.413E+00	1.969E+00	1.953E+00	1.018E+00	7.889E-03
IY= 10	1.019E+00	7.910E-01	7.647E-01	1.236E+00	2.482E+00	8.659E+00	1.447E+01	6.051E-01	7.408E-03
IY= 9	1.567E+00	1.115E+00	1.085E+00	1.329E+00	3.245E+00	1.689E+01	8.081E+00	3.526E-01	7.023E-03
IY= 8	2.724E+00	1.985E+00	2.065E+00	2.802E+00	6.917E+00	1.141E+01	2.059E+00	1.234E-01	6.697E-03
IY= 7	1.550E+01	9.067E+00	5.615E+00	5.180E+00	5.747E+00	3.320E+00	2.251E-01	1.084E-02	6.425E-03
IY= 6	2.923E+01	1.591E+01	1.779E+01	5.829E+00	2.743E+00	9.525E+01	2.097E+01	3.193E+02	6.209E-03
IY= 5	4.918E+01	4.856E+01	9.479E+00	2.467E+00	8.729E+01	4.035E+01	2.823E+01	1.212E+01	6.025E-03
IY= 4	4.964E+01	4.888E+01	6.047E+00	1.793E+00	7.706E+01	8.578E+01	1.081E+00	3.396E+01	5.861E-03
IY= 3	4.880E+01	4.826E+01	4.337E+00	1.884E+00	1.238E+00	1.992E+00	3.613E+00	6.669E+01	5.769E-03
IY= 2	5.852E+00	4.225E+00	3.917E+00	1.499E+00	1.496E+00	2.728E+00	5.781E+00	8.022E+01	5.606E-03
IY= 1	9.274E-01	6.546E-01	5.377E-01	5.051E-01	4.083E-01	2.725E-01	6.837E-02	9.750E-01	5.433E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP									
IY= 23	1.031E-01	1.264E-01	1.319E-01	1.310E-01	1.157E-01	8.335E-02	5.139E-02	2.789E-02	2.107E-02
IY= 22	5.941E-02	5.922E-02	5.650E-02	4.945E-02	3.744E-02	2.515E-02	1.509E-02	1.261E-02	

IY= 21	2.637E-02	2.623E-02	2.574E-02	2.430E-02	2.145E-02	1.698E-02	1.233E-02	8.353E-03	8.023E-03
IY= 20	1.112E-02	1.107E-02	1.094E-02	1.057E-02	9.819E-03	8.478E-03	6.862E-03	5.352E-03	5.847E-03
IY= 19	4.779E-03	4.801E-03	4.887E-03	5.039E-03	5.184E-03	5.150E-03	4.843E-03	4.407E-03	5.555E-03
IY= 18	3.369E-03	3.336E-03	3.447E-03	3.812E-03	4.450E-03	5.385E-03	6.532E-03	8.383E-03	1.431E-02
IY= 17	3.395E-03	3.964E-03	2.874E-03	3.251E-03	4.225E-03	6.533E-03	1.209E-02	3.573E-02	1.527E-01
IY= 16	6.930E-08	6.205E-08	9.888E-08	3.954E-07	2.574E-06	1.625E-05	8.785E-05	5.566E-04	3.609E-01
IY= 15	8.431E-02	8.673E-02	1.093E-01	1.226E-01	1.287E-01	1.296E-01	1.399E-01	1.191E-01	2.961E+00
IY= 14	1.525E-01	1.621E-01	3.002E-01	2.393E-01	1.309E-01	5.790E-02	2.583E-02	1.475E-03	4.344E-04
IY= 13	2.038E-01	2.516E-01	1.812E-01	1.334E-01	8.601E-02	4.740E-02	2.120E-02	2.607E-03	1.073E-03
IY= 12	1.591E-01	1.969E-01	2.286E-01	2.228E-01	1.834E-01	1.077E-01	4.351E-02	4.620E-03	1.108E-03
IY= 11	5.210E-01	3.222E-01	1.700E-02	4.444E-01	2.537E+00	4.173E+00	4.122E+00	1.481E+00	1.010E-03
IY= 10	1.751E+00	1.466E+00	1.684E+00	3.745E+00	9.270E+00	6.048E+01	1.091E+02	6.465E+01	9.192E-04
IY= 9	3.431E+00	2.526E+00	2.587E+00	3.709E+00	1.209E+01	1.215E+02	5.559E+01	2.875E+01	8.485E-04
IY= 8	8.446E+00	6.144E+00	6.749E+00	1.097E+01	3.484E+01	7.972E+01	1.237E+01	5.954E+02	7.901E-04
IY= 7	2.016E+02	7.988E+01	3.172E+01	2.624E+01	3.043E+01	2.081E+01	1.077E+00	1.551E-03	7.425E-04
IY= 6	5.549E+03	3.602E+03	3.816E+02	3.637E+01	1.294E+01	4.359E+00	7.333E-01	7.836E-03	7.053E-04
IY= 5	5.196E+04	5.055E+04	2.635E+03	1.550E+01	3.395E+00	1.283E+00	6.730E-01	5.794E-02	6.742E-04
IY= 4	5.279E+04	5.123E+04	2.257E+03	1.269E+01	3.010E+00	3.750E+00	5.457E+00	2.719E+01	6.469E-04
IY= 3	5.109E+04	4.977E+04	1.737E+03	1.069E+01	5.411E+00	1.039E+01	2.340E+01	7.147E+01	6.284E-04
IY= 2	1.764E+03	1.374E+03	6.388E+01	6.739E+00	1.307E+01	4.008E+01	9.868E+01	6.050E+00	
IY= 1	1.200E+00	7.118E+01	5.300E+01	4.805E+01	3.507E+01	1.912E+01	2.403E+02	1.308E+00	5.774E-04
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1									
IY= 23	3.071E+05	3.068E+05	3.062E+05	3.052E+05	3.038E+05	3.022E+05	3.008E+05	2.995E+05	2.990E+05
IY= 22	3.025E+05	3.026E+05	3.026E+05	3.025E+05	3.021E+05	3.014E+05	3.004E+05	2.994E+05	2.984E+05
IY= 21	3.009E+05	3.010E+05	3.011E+05	3.010E+05	3.006E+05	2.997E+05	2.987E+05	2.979E+05	2.977E+05
IY= 20	2.988E+05	2.989E+05	2.989E+05	2.987E+05	2.983E+05	2.978E+05	2.978E+05	2.977E+05	2.977E+05
IY= 19	2.973E+05	2.973E+05	2.972E+05	2.971E+05	2.969E+05	2.967E+05	2.965E+05	2.964E+05	2.965E+05
IY= 18	2.967E+05	2.967E+05	2.966E+05	2.966E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.964E+05
IY= 17	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05
IY= 16	2.962E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.963E+05
IY= 15	2.962E+05	2.963E+05	2.963E+05						
IY= 14	2.963E+05	2.963E+05	2.962E+05						
IY= 13	2.964E+05								
IY= 12	2.964E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IY= 11	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.964E+05	2.966E+05	2.962E+05
IY= 10	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.965E+05	2.968E+05	2.962E+05
IY= 9	2.960E+05	2.960E+05	2.960E+05	2.960E+05	2.961E+05	2.963E+05	2.967E+05	2.969E+05	2.962E+05
IY= 8	2.960E+05	2.960E+05	2.960E+05	2.960E+05	2.961E+05	2.965E+05	2.969E+05	2.970E+05	2.962E+05
IY= 7	2.959E+05	2.959E+05	2.959E+05	2.959E+05	2.961E+05	2.963E+05	2.967E+05	2.968E+05	2.962E+05
IY= 6	3.354E+05	3.327E+05	2.955E+05	2.950E+05	2.963E+05	2.971E+05	2.972E+05	2.982E+05	2.981E+05
IY= 5	2.008E+06	2.008E+06	3.415E+05	2.962E+05	2.969E+05	2.986E+05	3.001E+05	3.001E+05	2.997E+05
IY= 4	2.008E+06	2.008E+06	3.498E+05	2.964E+05	2.978E+05	3.006E+05	3.025E+05	3.018E+05	2.962E+05
IY= 3	2.008E+06	2.008E+06	3.464E+05	2.967E+05	2.984E+05	3.013E+05	3.030E+05	3.043E+05	2.962E+05
IY= 2	3.401E+05	3.335E+05	2.960E+05	2.970E+05	2.991E+05	3.021E+05	3.029E+05	3.056E+05	2.962E+05
IY= 1	2.961E+05	2.964E+05	2.970E+05	2.993E+05	3.027E+05	3.055E+05	3.059E+05	3.076E+05	2.962E+05
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST									
IY= 23	2.123E-01	2.153E-01	2.212E-01	2.267E-01	2.257E-01	2.138E-01	1.933E-01	1.697E-01	1.736E-01
IY= 22	1.893E-01	1.895E-01	1.901E-01	1.904E-01	1.888E-01	1.824E-01	1.715E-01	1.583E-01	1.680E-01
IY= 21	1.428E-01	1.429E-01	1.432E-01	1.435E-01	1.416E-01	1.373E-01	1.301E-01	1.418E-01	
IY= 20	1.031E-01	1.037E-01	1.051E-01	1.079E-01	1.116E-01	1.151E-01	1.161E-01	1.126E-01	1.256E-01
IY= 19	7.725E-02	7.843E-02	8.132E-02	8.678E-02	9.426E-02	1.023E-01	1.071E-01	1.057E-01	1.207E-01
IY= 18	7.466E-02	7.547E-02	7.819E-02	8.490E-02	9.664E-02	1.148E-01	1.365E-01	1.575E-01	1.571E-01
IY= 17	6.636E-02	6.685E-02	6.972E-02	7.665E-02	8.896E-02	1.093E-01	1.355E-01	1.495E-01	1.486E-01
IY= 16	2.305E-04	2.221E-04	2.595E-04	4.119E-04	7.690E-04	1.421E-03	2.494E-03	4.616E-03	9.239E-02
IY= 15	1.178E-02	1.189E-02	1.284E-02	1.334E-02	1.356E-02	1.359E-02	1.394E-02	1.321E-02	9.526E-02
IY= 14	2.564E-02	4.331E-02	4.805E-02	5.684E-02	2.361E-02	1.196E-02	5.732E-03	6.710E-03	4.186E-03
IY= 13	3.470E-02	4.705E-02	4.545E-02	4.017E-02	3.040E-02	1.946E-02	1.118E-02	8.114E-03	5.658E-03
IY= 12	3.651E-02	3.920E-02	4.120E-02	4.085E-02	3.828E-02	3.206E-02	2.370E-02	1.048E-02	5.718E-03
IY= 11	4.178E-02	3.559E-02	1.335E-02	3.962E-02	7.081E-02	8.359E-02	8.324E-02	6.296E-02	5.545E-03
IY= 10	5.339E-02	3.842E-02	3.126E-02	3.669E-02	5.980E-02	1.116E-01	1.727E-01	5.098E-02	5.374E-03
IY= 9	6.438E-02	4.432E-02	4.097E-02	4.283E-02	7.839E-02	2.112E-01	1.057E-01	3.891E-02	5.232E-03
IY= 8	7.908E-02	5.773E-02	5.684E-02	6.441E-02	1.236E-01	1.469E-01	3.084E-02	2.302E-02	5.109E-03
IY= 7	1.073E-01	9.262E-02	8.946E-02	9.201E-02	9.769E-02	4.765E-02	4.234E-03	6.823E-03	5.004E-03
IY= 6	1.386E-02	6.326E-03	7.447E-02	8.432E-02	5.234E-02	1.873E-02	5.400E-03	1.171E-02	4.920E-03
IY= 5	4.190E-03	4.198E-03	3.069E-03	3.535E-02	2.020E-02	1.142E-02	1.066E-02	2.281E-02	4.846E-03
IY= 4	4.200E-03	4.197E-03	1.458E-03	2.281E-02	1.776E-02	1.766E-02	1.927E-02	3.819E-02	4.780E-03

IY= 3	4.195E-03	4.213E-03	9.740E-04	2.987E-02	2.551E-02	3.437E-02	5.019E-02	5.271E-02	4.734E-03
IY= 2	1.746E-03	1.169E-03	2.161E-02	3.002E-02	3.232E-02	5.125E-02	7.505E-02	5.869E-02	4.674E-03
IY= 1	6.448E-02	5.417E-02	4.910E-02	4.759E-02	4.279E-02	3.495E-02	1.751E-02	6.541E-02	4.602E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IY= 33	3.058E+02	3.056E+02	3.050E+02	3.040E+02	3.026E+02	3.011E+02	2.996E+02	2.983E+02	2.978E+02
IY= 32	3.013E+02	3.014E+02	3.014E+02	3.013E+02	3.009E+02	3.002E+02	2.992E+02	2.982E+02	2.977E+02
IY= 31	2.997E+02	2.998E+02	2.999E+02	2.998E+02	2.994E+02	2.985E+02	2.976E+02	2.967E+02	2.965E+02
IY= 30	2.977E+02	2.977E+02	2.977E+02	2.975E+02	2.971E+02	2.966E+02	2.961E+02	2.957E+02	2.957E+02
IY= 19	2.962E+02	2.961E+02	2.961E+02	2.959E+02	2.956E+02	2.955E+02	2.954E+02	2.952E+02	2.952E+02
IY= 18	2.956E+02	2.955E+02	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.952E+02
IY= 17	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02
IY= 16	2.951E+02	2.951E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.951E+02	2.951E+02
IY= 15	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02
IY= 14	2.951E+02	2.951E+02	2.950E+02						
IY= 13	2.952E+02	2.952E+02	2.952E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IY= 12	2.952E+02	2.952E+02	2.952E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IY= 11	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.952E+02	2.954E+02	2.950E+02
IY= 10	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.953E+02	2.956E+02	2.950E+02
IY= 9	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.958E+02	2.957E+02	2.950E+02
IY= 8	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.953E+02	2.957E+02	2.955E+02	2.950E+02
IY= 7	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.954E+02	2.959E+02	2.956E+02	2.950E+02
IY= 6	3.340E+02	3.344E+02	2.950E+02	2.950E+02	2.952E+02	2.959E+02	2.970E+02	2.969E+02	2.950E+02
IY= 5	2.000E+03	2.000E+03	3.401E+02	2.950E+02	2.958E+02	2.974E+02	2.989E+02	2.985E+02	2.950E+02
IY= 4	2.000E+03	2.000E+03	3.484E+02	2.952E+02	2.967E+02	2.994E+02	3.012E+02	3.006E+02	2.950E+02
IY= 3	2.000E+03	2.000E+03	3.450E+02	2.955E+02	2.973E+02	3.001E+02	3.018E+02	3.031E+02	2.950E+02
IY= 2	3.387E+02	3.381E+02	2.950E+02	2.956E+02	2.979E+02	3.009E+02	3.017E+02	3.044E+02	2.950E+02
IY= 1	2.950E+02	2.952E+02	2.958E+02	2.981E+02	3.015E+02	3.043E+02	3.047E+02	3.064E+02	2.950E+02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IY= 33	1.158E+00	1.159E+00	1.161E+00	1.165E+00	1.171E+00	1.177E+00	1.182E+00	1.188E+00	1.190E+00
IY= 32	1.176E+00	1.176E+00	1.176E+00	1.176E+00	1.177E+00	1.180E+00	1.184E+00	1.186E+00	1.190E+00
IY= 31	1.182E+00	1.182E+00	1.181E+00	1.182E+00	1.183E+00	1.187E+00	1.191E+00	1.194E+00	1.195E+00
IY= 30	1.190E+00	1.190E+00	1.190E+00	1.191E+00	1.192E+00	1.194E+00	1.197E+00	1.198E+00	1.198E+00
IY= 19	1.196E+00	1.196E+00	1.197E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00
IY= 18	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00
IY= 17	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.200E+00
IY= 16	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 15	1.200E+00	1.201E+00	1.201E+00						
IY= 14	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 13	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 12	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IY= 11	1.200E+00	1.201E+00	1.201E+00						
IY= 10	1.199E+00	1.198E+00	1.201E+00						
IY= 9	1.199E+00	1.198E+00	1.201E+00						
IY= 8	1.198E+00	1.198E+00	1.198E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.197E+00	1.198E+00
IY= 7	1.197E+00	1.197E+00	1.197E+00	1.198E+00	1.198E+00	1.198E+00	1.198E+00	1.196E+00	1.198E+00
IY= 6	1.013E+00	1.036E+00	1.191E+00	1.196E+00	1.198E+00	1.198E+00	1.196E+00	1.192E+00	1.193E+00
IY= 5	2.209E-01	2.126E-01	1.009E+00	1.198E+00	1.196E+00	1.189E+00	1.187E+00	1.184E+00	1.186E+00
IY= 4	2.277E-01	2.171E-01	9.761E-01	1.196E+00	1.192E+00	1.181E+00	1.174E+00	1.178E+00	1.178E+00
IY= 3	2.161E-01	2.011E-01	1.002E+00	1.196E+00	1.189E+00	1.178E+00	1.172E+00	1.168E+00	1.201E+00
IY= 2	1.023E+00	1.046E+00	1.194E+00	1.194E+00	1.187E+00	1.175E+00	1.172E+00	1.164E+00	1.201E+00
IY= 1	1.199E+00	1.198E+00	1.196E+00	1.186E+00	1.173E+00	1.162E+00	1.161E+00	1.156E+00	1.201E+00
IX= 1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 21 ITERN NO= 1

FLOW FIELD AT ITWHD= 1, IZ= 21, ISWEEP= 70, ISTEP= 1
FIELD VALUES OF PI

IY= 33	-7.486E-01	-7.650E-01	-7.892E-01	-8.217E-01	-8.502E-01	-8.680E-01	-8.739E-01	-8.435E-01	-8.677E-01
IY= 32	-8.181E-01	-8.126E-01	-8.189E-01	-8.289E-01	-8.398E-01	-8.491E-01	-8.540E-01	-8.307E-01	-8.474E-01
IY= 31	-8.876E-01	-8.855E-01	-8.857E-01	-8.861E-01	-8.862E-01	-8.855E-01	-8.838E-01	-8.593E-01	-8.745E-01
IY= 30	-9.126E-01	-9.129E-01	-9.126E-01	-9.121E-01	-9.114E-01	-9.104E-01	-9.093E-01	-8.872E-01	-9.017E-01
IY= 19	-9.218E-01	-9.210E-01	-9.214E-01	-9.223E-01	-9.244E-01	-9.289E-01	-9.362E-01	-9.280E-01	-9.454E-01
IY= 18	-9.138E-01	-9.112E-01	-9.120E-01	-9.138E-01	-9.187E-01	-9.328E-01	-9.650E-01	-1.015E+00	-1.103E+00
IY= 17	-9.092E-01	-9.065E-01	-9.075E-01	-9.094E-01	-9.151E-01	-9.332E-01	-9.836E-01	-1.114E+00	-1.381E+00

IV=	16	-9.001E-01	-8.998E-01	-8.995E-01	-8.998E-01	-9.027E-01	-9.195E-01	-9.832E-01	-1.256E+00	-2.627E+00
IV=	15	-2.542E+01	-2.812E+01	-3.102E+01	-3.272E+01	-3.414E+01	-3.502E+01	-3.661E+01	-2.463E+01	-5.314E+00
IV=	14	-3.072E+01	-3.196E+01	-3.335E+01	-3.437E+01	-3.519E+01	-3.546E+01	-3.537E+01	-2.782E+01	-1.808E+00
IV=	13	-4.026E+01	-4.050E+01	-4.046E+01	-4.011E+01	-3.957E+01	-3.843E+01	-3.724E+01	-2.901E+01	-1.626E+00
IV=	12	-4.829E+01	-4.866E+01	-4.863E+01	-4.744E+01	-4.543E+01	-4.248E+01	-3.990E+01	-3.036E+01	-1.443E+00
IV=	11	-8.665E+01	-8.426E+01	-5.395E+01	-7.227E+01	-7.888E+01	-7.095E+01	-1.853E+01	9.285E+01	-1.518E+00
IV=	10	-1.331E+02	-1.423E+02	-1.620E+02	-1.883E+02	-1.770E+02	-1.333E+02	-8.211E+01	4.497E+00	-1.246E+00
IV=	9	-1.636E+02	-1.715E+02	-1.869E+02	-1.905E+02	-1.690E+02	-1.263E+02	-1.043E+02	-3.603E+01	-1.199E+00
IV=	8	-2.198E+02	-2.210E+02	-2.308E+02	-2.005E+02	-1.635E+02	-1.338E+02	-1.115E+02	-5.120E+01	-1.162E+00
IV=	7	-4.260E+02	-5.339E+02	-3.552E+02	-2.377E+02	-1.784E+02	-1.440E+02	-1.095E+02	-5.170E+01	-1.132E+00
IV=	6	-1.036E+03	-1.175E+03	-7.839E+02	-2.871E+02	-1.968E+02	-1.543E+02	-1.097E+02	-5.062E+01	-1.109E+00
IV=	5	5.151E+03	1.567E+03	-1.220E+03	-2.752E+02	-2.098E+02	-1.739E+02	-1.246E+02	-5.397E+01	-1.089E+00
IV=	4	8.541E+03	3.448E+03	-1.909E+03	-3.466E+02	-2.243E+02	-2.010E+02	-1.559E+02	-5.510E+01	-1.071E+00
IV=	3	3.185E+03	6.546E+02	-8.623E+02	-2.869E+02	-2.214E+02	-2.211E+02	-1.720E+02	-3.499E+01	-1.061E+00
IV=	2	-7.862E+02	-5.566E+02	-4.938E+02	-2.695E+02	-2.230E+02	-2.273E+02	-1.712E+02	7.166E-01	-1.050E+00
IV=	1	-6.636E+01	-1.031E+02	-1.544E+02	-1.596E+02	-1.785E+02	-2.220E+02	-2.075E+02	4.425E+01	-1.043E+00
IX#	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF U1										
IV=	23	-3.749E-03	-9.479E-03	-2.146E-02	-3.549E-02	-5.140E-02	-6.200E-02	-6.718E-02	1.886E-03	
IV=	22	9.984E-03	1.854E-02	2.727E-02	2.961E-02	2.297E-02	6.716E-03	-1.576E-02	2.841E-02	
IV=	21	3.726E-03	6.681E-03	8.385E-03	5.539E-03	-5.405E-03	-2.155E-02	-3.890E-02	1.721E-02	
IV=	20	-8.452E-04	-2.053E-03	-5.684E-03	-1.156E-02	-2.332E-02	-3.681E-02	-4.978E-02	1.285E-02	
IV=	19	2.441E-03	4.798E-03	7.914E-03	1.034E-02	1.192E-02	9.086E-03	-3.407E-03	4.501E-02	
IV=	18	8.804E-03	1.754E-02	3.179E-02	4.959E-02	7.990E-02	1.142E-01	1.337E-01	1.729E-01	
IV=	17	1.241E-02	2.330E-02	4.413E-02	7.185E-02	1.260E-01	2.026E-01	2.891E-01	4.213E-01	
IV=	16	5.537E-03	1.484E-02	3.683E-02	7.328E-02	1.558E-01	2.998E-01	5.565E-01	1.145E+00	
IV=	15	-1.775E+00	-2.761E+00	-3.535E+00	-3.984E+00	-4.394E+00	-4.750E+00	-5.211E+00	-4.376E+00	
IV=	14	-5.572E-01	-9.982E-01	-1.518E-00	-1.907E+00	-2.272E+00	-2.494E+00	-2.643E+00	-3.060E-08	
IV=	13	-1.336E-01	-3.835E-01	-8.702E-01	-1.404E+00	-1.940E+00	-2.211E+00	-2.377E+00	-1.259E-17	
IV=	12	3.113E-01	2.196E-01	-2.378E-01	-7.584E-01	-1.475E+00	-2.062E+00	-2.418E+00	1.990E-15	
IV=	11	-4.808E-01	-6.327E-01	1.005E+01	1.567E+01	1.860E+01	1.861E+01	1.593E+01	1.186E-07	
IV=	10	3.964E-01	5.189E-01	4.642E+00	9.289E+00	9.632E+00	6.329E+00	3.945E+00	1.297E-08	
IV=	9	1.561E-01	1.097E-01	7.664E-01	3.466E+03	2.644E+00	-3.149E+00	-3.723E+00	2.397E-15	
IV=	8	-1.557E+00	-2.245E+00	-3.785E+00	-2.662E+00	-4.862E+00	-7.858E+00	-6.749E+00	2.175E-15	
IV=	7	-8.115E+00	-6.424E+00	-1.114E+01	-9.682E+00	-1.049E+01	-1.064E+01	-7.791E+00	6.861E-15	
IV=	6	-2.252E+01	-3.120E+01	-2.377E+01	-1.491E+01	-1.305E+01	-1.143E+01	-7.985E+00	1.795E-14	
IV=	5	2.064E+01	8.125E+01	4.268E+00	-1.610E+01	-1.360E+01	-1.167E+01	-7.992E+00	5.382E-14	
IV=	4	2.737E+01	9.959E+01	7.666E+00	-1.723E+01	-1.224E+01	-1.004E+01	-6.245E+00	1.403E-13	
IV=	3	1.604E+01	6.994E+01	5.023E+00	-1.285E+01	-7.587E+00	1.147E+00	2.256E+01	1.797E-09	
IV=	2	-1.625E+01	-2.303E+01	-1.674E+01	-9.901E+00	-5.353E+00	4.709E+00	4.337E+00	3.294E-08	
IV=	1	-4.745E+00	-3.416E+00	-6.033E+00	-4.882E+00	-2.678E+00	3.386E+00	1.164E+01	1.328E-07	
IX#	1	2	3	4	5	6	7	8		
FIELD VALUES OF V1										
IV=	22	-4.488E-01	-4.342E-01	-4.023E-01	-3.479E-01	-2.776E-01	-2.020E-01	-1.400E-01	-9.285E-02	-7.955E-02
IV=	21	-3.557E-01	-3.494E-01	-3.336E-01	-3.067E-01	-2.730E-01	-2.409E-01	-2.152E-01	-1.891E-01	-2.011E-01
IV=	20	-2.705E-01	-2.691E-01	-2.656E-01	-2.605E-01	-2.564E-01	-2.456E-01	-2.489E-01	-2.293E-01	-2.557E-01
IV=	19	-2.054E-01	-2.074E-01	-2.124E-01	-2.046E-01	-2.424E-01	-2.637E-01	-2.753E-01	-2.640E-01	-3.050E-01
IV=	18	-1.141E-01	-1.182E-01	-1.290E-01	-1.535E-01	-1.918E-01	-2.488E-01	-3.136E-01	-3.672E-01	-4.773E-01
IV=	17	-7.547E-02	-8.005E-02	-9.129E-02	-1.138E-01	-1.513E-01	-2.133E-01	-3.033E-01	-4.288E-01	-6.790E-01
IV=	16	-3.141E-02	-3.829E-02	-4.717E-02	-6.326E-02	-9.016E-02	-1.401E-01	-2.341E-01	-4.228E-01	-1.161E+00
IV=	15	-2.600E-12	-2.674E-12	-4.437E-12	-5.504E-12	-1.126E-11	-2.236E-11	-5.406E-11	-2.301E-07	-2.407E+00
IV=	14	-1.997E+00	-1.113E+00	-5.830E-01	-3.381E-01	-2.281E-01	-1.894E-01	-2.525E-01	-7.080E-01	8.609E-02
IV=	13	-2.938E+00	-1.805E+00	-1.074E+00	-6.446E-01	-4.015E-01	-2.866E-01	-3.151E-01	-3.074E-01	1.957E-01
IV=	12	-2.405E+00	-1.518E+00	-1.018E+00	-7.532E-01	-4.253E-01	-1.932E-01	-2.315E-01	-2.231E-01	2.068E-01
IV=	11	-5.686E-09	-3.748E-09	-3.599E-09	-2.495E-09	-1.174E-09	-1.179E-10	-5.131E-10	-2.533E-10	1.827E-01
IV=	10	-3.397E-00	-4.418E+00	-8.252E+00	-8.823E+00	-6.210E+00	-3.267E+00	-2.128E+00	-4.168E+00	1.562E-01
IV=	9	-3.504E+00	-4.152E+00	-6.117E+00	-7.183E+00	-5.590E+00	-2.229E+00	-1.876E+00	-4.678E+00	1.565E-01
IV=	8	-4.959E+00	-5.548E+00	-6.586E+00	-6.344E+00	-4.726E+00	-2.287E+00	-1.036E+00	-3.159E+00	1.190E-01
IV=	7	-1.050E+01	-9.479E+00	-1.022E+01	-7.191E+00	-4.460E+00	-1.286E+00	4.726E-01	-1.059E+00	1.026E-01
IV=	6	8.881E+00	3.083E+00	-1.860E+01	-7.013E+00	-3.453E+00	-3.757E-01	1.165E+00	1.215E+00	8.748E-02
IV=	5	9.716E+01	7.196E+01	-2.506E+01	-3.177E+00	-3.025E+00	-1.708E+00	2.901E-01	2.605E+00	7.466E-02
IV=	4	1.427E+01	9.113E+01	-1.121E+01	-5.373E+00	-3.078E+00	-2.423E+00	1.732E-01	5.112E+00	6.022E-02
IV=	3	-2.979E+01	-1.876E+01	1.551E+01	2.150E+00	-1.935E+00	-2.128E+00	2.202E+00	7.817E+00	4.682E-02
IV=	2	-9.100E+01	-6.450E+01	2.000E+01	1.314E-02	-1.308E+00	-1.246E+00	1.702E+00	7.961E+00	3.748E-02
IV=	1	-1.669E+01	-8.482E+00	1.241E+01	4.878E+00	1.980E+00	-2.710E-01	9.068E-01	7.192E+00	1.639E-02
IX#	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										
IV=	23	-1.808E+00	-1.755E+00	-1.575E+00	-1.308E+00	-9.742E-01	-6.150E-01	-3.213E-01	-1.052E-01	-3.607E-09

IV= 22	-8.992E-01	-8.687E-01	-7.977E-01	-6.690E-01	-6.914E-01	-2.866E-01	-1.102E-01	1.842E-02	8.342E-02
IV= 21	-5.030E-01	-4.861E-01	-4.457E-01	-3.701E-01	-2.633E-01	-1.373E-01	-2.908E-02	4.695E-02	8.879E-02
IV= 20	-2.947E-01	-2.844E-01	-2.612E-01	-2.162E-01	-1.524E-01	-7.583E-02	-9.944E-03	3.575E-02	6.214E-02
IV= 19	-1.881E-01	-1.836E-01	-1.730E-01	-1.524E-01	-1.217E-01	-8.201E-02	-4.428E-02	-1.262E-02	6.185E-04
IV= 18	-1.088E-01	-1.077E-01	-1.054E-01	-1.004E-01	-9.134E-02	-7.655E-02	-5.936E-02	-3.902E-02	-3.001E-02
IV= 17	-5.725E-02	-5.776E-02	-5.917E-02	-6.117E-02	-6.290E-02	-6.318E-02	-6.229E-02	-5.247E-02	-5.584E-02
IV= 16	3.298E-02	3.042E-02	2.626E-02	1.996E-02	1.058E-02	-1.710E-03	-1.632E-02	-2.406E-02	-2.906E-02
IV= 15	3.757E-00	3.512E+00	3.284E+00	2.920E+00	2.503E+00	1.878E+00	1.188E+00	4.195E-01	7.227E-02
IV= 14	4.493E+00	4.878E+00	5.069E+00	4.909E+00	4.481E+00	3.635E+00	2.495E+00	1.152E+00	7.815E-01
IV= 13	5.668E+00	6.333E+00	6.833E+00	6.693E+00	6.087E+00	4.938E+00	3.372E+00	1.532E+00	1.058E+00
IV= 12	7.493E+00	8.081E+00	8.514E+00	8.391E+00	7.718E+00	6.164E+00	4.078E+00	1.821E+00	1.063E+00
IV= 11	9.370E+00	7.300E+00	-3.387E+00	-8.772E+00	-1.209E+01	-1.319E+01	-1.337E+01	-1.298E+01	1.028E+00
IV= 10	1.207E+01	1.144E+01	8.347E+00	3.916E+00	-9.038E+01	-2.651E+00	-5.422E+00	-9.261E+00	9.941E-01
IV= 9	1.296E+01	1.181E+01	1.021E+01	6.738E+00	1.446E+00	1.466E-01	-3.411E+00	-6.498E+00	9.667E-01
IV= 8	1.339E+01	1.099E+01	8.619E+00	4.315E+00	1.145E+01	1.763E+01	-2.287E+00	-3.689E+00	9.432E-01
IV= 7	2.937E+01	1.635E+01	6.647E+00	2.724E+00	1.447E+00	3.627E+01	-1.464E+00	-1.186E+00	9.232E-01
IV= 6	1.314E+02	8.775E+01	2.254E+00	2.261E+00	1.920E+00	5.601E-02	-1.739E+00	-1.271E+00	9.071E-01
IV= 5	8.196E+02	8.068E+02	9.118E+01	1.151E+01	2.419E+00	1.350E+01	-2.902E+00	-2.734E+00	8.933E-01
IV= 4	8.270E+02	8.155E+02	1.215E+02	1.808E+01	2.092E+00	-4.662E+01	-3.746E+00	-4.779E+00	8.808E-01
IV= 3	8.099E+02	7.967E+02	8.056E+01	1.214E+01	2.808E+00	-1.411E+00	-6.064E+00	-7.754E+00	8.718E-01
IV= 2	9.183E+01	6.101E+01	7.300E+00	7.446E+00	5.466E+00	-1.168E+00	-7.023E+00	-9.921E+00	8.604E-01
IV= 1	1.936E+01	1.204E+01	7.000E+00	6.706E+00	6.584E+00	4.404E+00	-5.651E+00	-1.346E+01	8.459E-01
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF KE									
IV= 23	5.413E-01	5.527E-01	5.731E-01	5.797E-01	5.450E-01	4.512E-01	3.371E-01	2.327E-01	2.044E-01
IV= 22	3.554E-01	3.561E-01	3.559E-01	7.481E-01	3.243E-01	2.771E-01	2.197E-01	1.622E-01	1.537E-01
IV= 21	2.045E-01	2.039E-01	2.021E-01	1.964E-01	1.841E-01	1.623E-01	1.359E-01	1.086E-01	1.114E-01
IV= 20	1.112E-01	1.112E-01	1.106E-01	1.083E-01	1.020E-01	9.215E-02	8.015E-02	8.882E-02	
IV= 19	6.177E-02	6.238E-02	6.402E-02	6.726E-02	7.120E-02	7.412E-02	7.379E-02	7.011E-02	8.461E-02
IV= 18	5.037E-02	5.036E-02	5.212E-02	5.724E-02	6.630E-02	8.010E-02	9.708E-02	1.192E-01	1.571E-01
IV= 17	4.776E-02	4.458E-02	4.473E-02	4.996E-02	6.169E-02	8.585E-02	1.316E-01	2.409E-01	4.690E-01
IV= 16	1.775E-05	1.653E-05	2.098E-05	4.687E-05	1.529E-04	5.127E-04	1.575E-03	5.417E-03	6.133E-01
IV= 15	1.065E-01	1.077E-01	1.257E-01	1.365E-01	1.428E-01	1.461E-01	1.559E-01	1.392E-01	1.783E+00
IV= 14	2.169E-01	3.637E-01	4.032E-01	3.363E-01	1.855E-01	8.817E-02	3.998E-02	1.093E-02	4.802E-03
IV= 13	2.905E-01	3.849E-01	3.216E-01	2.575E-01	1.787E-01	1.051E-01	5.301E-02	1.606E-02	8.327E-03
IV= 12	2.787E-01	3.200E-01	3.519E-01	3.437E-01	2.995E-01	2.091E-01	1.161E-01	2.533E-02	8.378E-03
IV= 11	4.343E-01	2.754E-01	1.797E-01	1.103E+00	1.911E+00	2.232E+00	2.060E+00	9.273E-01	7.836E-03
IV= 10	9.874E-01	8.135E-01	9.088E-01	1.697E+00	3.923E+00	1.566E+01	1.865E+01	5.043E-01	7.341E-03
IV= 9	1.553E+00	1.102E+00	1.065E+00	1.621E+00	6.973E+00	2.309E+01	6.022E+00	2.895E+01	6.954E-03
IV= 8	3.405E+00	2.187E+00	2.318E+00	3.957E+00	1.198E+01	9.533E+00	8.640E+01	1.000E+01	6.630E-03
IV= 7	1.488E+01	8.200E+00	7.320E+00	7.249E+00	6.510E+00	1.673E+00	1.065E+01	9.850E-03	6.361E-03
IV= 6	3.944E+01	2.716E+01	2.612E+01	6.576E+00	2.426E+00	4.336E+01	1.423E+01	3.250E+02	6.147E-03
IV= 5	4.379E+01	4.400E+01	1.750E+01	1.888E+00	8.444E+01	3.210E+01	2.551E+01	1.217E+01	5.967E-03
IV= 4	4.362E+01	4.350E+01	7.692E+00	1.172E+00	8.833E+01	8.293E+01	1.040E+00	3.219E+01	5.806E-03
IV= 3	4.332E+01	4.355E+01	6.817E+00	1.432E+00	1.985E+00	3.969E+00	3.761E+00	5.789E+01	5.693E-03
IV= 2	6.744E+00	6.832E+00	7.897E+00	2.027E+00	2.830E+00	1.003E+01	6.119E+00	7.222E+01	5.554E-03
IV= 1	1.709E+00	7.451E-01	3.512E-01	3.667E-01	2.888E-01	1.071E-01	4.277E-01	1.009E+00	5.382E-03
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF EP									
IV= 23	1.250E-01	1.284E-01	1.342E-01	1.336E-01	1.180E-01	8.531E-02	5.271E-02	2.862E-02	2.159E-02
IV= 22	6.006E-02	6.019E-02	5.995E-02	5.729E-02	5.019E-02	3.797E-02	2.543E-02	1.521E-02	1.270E-02
IV= 21	2.651E-02	2.636E-02	2.586E-02	2.439E-02	2.147E-02	1.692E-02	1.224E-02	8.266E-03	7.958E-03
IV= 20	1.101E-02	1.096E-02	1.081E-02	1.061E-02	9.632E-03	8.288E-03	6.699E-03	5.227E-03	5.739E-03
IV= 19	4.607E-03	4.625E-03	4.702E-03	4.841E-03	4.978E-03	4.955E-03	4.679E-03	4.280E-03	5.442E-03
IV= 18	3.174E-03	3.139E-03	3.243E-03	3.597E-03	4.222E-03	5.159E-03	6.343E-03	8.267E-03	1.441E-02
IV= 17	3.212E-03	2.779E-03	2.681E-03	3.036E-03	3.972E-03	6.222E-03	1.171E-02	3.559E-02	1.353E-01
IV= 16	1.066E-07	9.581E-08	1.370E-07	4.574E-07	2.696E-06	1.653E-05	8.90E-05	5.682E-04	3.747E-01
IV= 15	8.612E-02	8.760E-02	1.104E-01	1.249E-01	1.336E-01	1.384E-01	1.524E-01	1.286E-01	3.058E+00
IV= 14	1.611E-01	2.724E-01	3.065E-01	2.326E-01	1.338E-01	6.012E-02	2.555E-02	1.570E-03	4.797E-04
IV= 13	2.168E-01	2.738E-01	1.984E-01	1.455E-01	9.328E-02	5.102E-02	2.282E-02	2.789E-03	1.095E-03
IV= 12	1.820E-01	2.249E-01	2.593E-01	2.504E-01	2.036E-01	1.188E-01	4.916E-02	5.273E-03	1.105E-03
IV= 11	4.324E-01	2.184E-01	1.151E-01	1.750E+00	3.993E+00	5.037E+00	4.466E+00	1.288E+00	9.999E-04
IV= 10	1.670E+00	1.526E+00	2.326E+00	5.211E+00	2.012E+01	1.244E+02	1.507E+02	4.919E+01	9.068E-04
IV= 9	3.366E+00	2.447E+00	2.550E+00	4.856E+00	3.440E+01	1.856E+02	4.213E+01	2.139E+01	8.360E-04
IV= 8	1.186E+01	7.028E+00	1.281E+00	1.840E+01	7.067E+01	6.846E+01	4.716E+00	4.346E+02	7.782E-04
IV= 7	9.864E+02	3.389E+02	4.716E+01	4.272E+01	3.712E+01	1.005E+01	3.375E+01	1.343E+02	7.314E-04
IV= 6	1.046E+04	7.027E+03	7.336E+02	4.348E+01	1.204E+01	1.764E+00	3.13E+01	8.046E+03	6.948E-04
IV= 5	4.162E+04	4.146E+04	5.343E+03	1.742E+02	3.361E+00	8.513E+01	5.116E+01	5.830E+02	6.645E-04

IV=	4	4.155E+04	4.104E+04	3.362E+03	1.445E-02	3.791E+00	3.939E+00	5.665E+00	2.508E-01	6.378E-04
IV=	3	4.079E+04	4.080E+04	2.647E+03	1.126E-02	1.202E+01	3.101E+01	2.653E+01	6.049E+01	6.192E-04
IV=	2	2.512E+03	2.218E+03	2.282E+02	1.102E+01	1.782E+01	8.395E+01	4.592E+01	8.448E+01	5.966E-04
IV=	1	3.002E+00	8.645E-01	2.797E-01	2.984E-01	2.086E-01	4.710E-02	3.760E-01	1.377E+00	5.694E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	3.076E+05	3.073E+05	3.061E+05	1.056E+05	3.041E+05	3.025E+05	3.009E+05	2.996E+05	2.991E+05
IV=	22	3.029E+05	3.030E+05	3.030E+05	3.028E+05	3.024E+05	3.016E+05	3.005E+05	2.994E+05	2.990E+05
IV=	21	3.011E+05	3.012E+05	3.013E+05	3.012E+05	3.006E+05	2.997E+05	2.987E+05	2.979E+05	2.977E+05
IV=	20	2.989E+05	2.988E+05	2.989E+05	2.987E+05	2.983E+05	2.978E+05	2.973E+05	2.968E+05	2.969E+05
IV=	19	2.973E+05	2.973E+05	2.972E+05	2.971E+05	2.969E+05	2.967E+05	2.965E+05	2.964E+05	2.965E+05
IV=	18	2.967E+05	2.967E+05	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05	2.964E+05
IV=	17	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.963E+05
IV=	16	2.962E+05	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.963E+05
IV=	15	2.962E+05								
IV=	14	2.963E+05	2.963E+05	2.962E+05						
IV=	13	2.964E+05	2.964E+05	2.964E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	12	2.964E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	11	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.964E+05	2.966E+05	2.962E+05
IV=	10	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.966E+05	2.969E+05	2.962E+05
IV=	9	2.960E+05	2.960E+05	2.960E+05	2.961E+05	2.961E+05	2.965E+05	2.972E+05	2.970E+05	2.962E+05
IV=	8	2.960E+05	2.960E+05	2.960E+05	2.961E+05	2.962E+05	2.967E+05	2.971E+05	2.967E+05	2.963E+05
IV=	7	2.970E+05	2.962E+05	2.959E+05	2.961E+05	2.963E+05	2.968E+05	2.972E+05	2.967E+05	2.962E+05
IV=	6	3.085E+05	3.715E+05	2.956E+05	2.961E+05	2.965E+05	2.975E+05	2.984E+05	2.981E+05	2.962E+05
IV=	5	1.918E+06	1.919E+06	3.892E+05	2.975E+05	2.971E+05	2.990E+05	3.002E+05	2.997E+05	2.962E+05
IV=	4	1.919E+06	1.917E+06	4.183E+05	2.990E+05	2.981E+05	3.010E+05	3.028E+05	3.018E+05	2.962E+05
IV=	3	1.917E+06	1.921E+06	3.924E+05	2.984E+05	2.986E+05	3.012E+05	3.028E+05	3.043E+05	2.962E+05
IV=	2	3.896E+05	3.643E+05	2.961E+05	2.972E+05	2.993E+05	3.021E+05	3.029E+05	3.055E+05	2.962E+05
IV=	1	2.997E+05	2.983E+05	2.972E+05	2.996E+05	3.026E+05	3.013E+05	3.059E+05	3.078E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IV=	23	2.109E-01	2.141E-01	2.203E-01	2.264E-01	2.266E-01	2.148E-01	1.940E-01	1.703E-01	1.742E-01
IV=	22	1.895E-01	1.896E-01	1.902E-01	1.904E-01	1.886E-01	1.820E-01	1.709E-01	1.576E-01	1.674E-01
IV=	21	1.419E-01	1.420E-01	1.422E-01	1.424E-01	1.421E-01	1.401E-01	1.357E-01	1.285E-01	1.403E-01
IV=	20	1.012E-01	1.018E-01	1.032E-01	1.058E-01	1.058E-01	1.130E-01	1.141E-01	1.106E-01	1.237E-01
IV=	19	7.455E-02	7.572E-02	7.862E-02	8.411E-02	9.165E-02	9.980E-02	1.047E-01	1.034E-01	1.184E-01
IV=	18	7.193E-02	7.272E-02	7.538E-02	8.200E-02	9.370E-02	1.119E-01	1.337E-01	1.548E-01	1.542E-01
IV=	17	6.392E-02	6.436E-02	6.717E-02	7.400E-02	8.623E-02	1.066E-01	1.331E-01	1.468E-01	1.463E-01
IV=	16	2.661E-04	2.568E-04	2.893E-04	4.323E-04	7.810E-04	1.429E-03	2.506E-03	4.648E-03	9.033E-02
IV=	15	1.186E-02	1.193E-02	1.288E-02	1.343E-02	1.373E-02	1.389E-02	1.435E-02	1.356E-02	9.353E-02
IV=	14	2.628E-02	4.371E-02	4.775E-02	3.631E-02	2.314E-02	1.164E-02	5.631E-03	6.852E-03	4.326E-03
IV=	13	3.552E-02	4.870E-02	4.691E-02	4.102E-02	3.081E-02	1.949E-02	1.108E-02	8.298E-03	5.697E-03
IV=	12	3.825E-02	4.098E-02	4.297E-02	4.247E-02	3.964E-02	3.312E-02	2.468E-02	1.095E-02	5.715E-03
IV=	11	3.926E-02	3.126E-02	2.526E-02	6.256E-02	8.237E-02	8.899E-02	8.550E-02	6.010E-02	5.526E-03
IV=	10	5.054E-02	3.904E-02	3.195E-02	4.973E-02	6.887E-02	1.77-E-01	2.076E-01	4.654E-02	5.349E-03
IV=	9	6.450E-02	4.465E-02	4.000E-02	4.869E-02	1.272E-01	2.587E-01	7.849E-02	3.526E-02	5.206E-03
IV=	8	8.797E-02	6.066E-02	5.839E-02	7.658E-02	1.830E-01	1.195E-01	1.425E-02	2.073E-02	5.084E-03
IV=	7	2.021E-02	1.786E-02	1.023E-01	1.107E-01	1.027E-01	2.506E-02	3.026E-03	6.504E-03	4.979E-03
IV=	6	1.139E-02	9.466E-03	8.373E-02	8.952E-02	4.402E-02	9.592E-03	5.705E-03	1.181E-02	4.895E-03
IV=	5	4.146E-03	4.204E-03	5.161E-03	1.841E-03	1.909E-02	1.090E-02	1.145E-02	2.286E-02	4.822E-03
IV=	4	4.120E-03	4.150E-03	1.584E-03	8.561E-04	1.852E-02	1.572E-02	1.719E-02	3.718E-02	4.757E-03
IV=	3	4.141E-03	4.205E-03	1.580E-03	1.639E-03	2.951E-02	4.572E-02	4.800E-02	4.986E-02	4.711E-03
IV=	2	1.630E-03	1.894E-03	2.458E-02	3.356E-02	4.044E-02	1.078E-01	7.339E-02	5.573E-02	4.653E-03
IV=	1	8.753E-02	5.780E-02	3.968E-02	4.055E-02	3.599E-02	2.191E-02	4.379E-02	6.653E-02	4.581E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMPI										
IV=	23	3.064E+02	3.061E+02	3.054E+02	3.043E+02	3.029E+02	3.013E+02	2.997E+02	2.984E+02	2.979E+02
IV=	22	3.017E+02	3.018E+02	3.018E+02	3.016E+02	3.012E+02	3.004E+02	2.993E+02	2.982E+02	2.978E+02
IV=	21	2.999E+02	3.000E+02	3.001E+02	3.000E+02	2.994E+02	2.985E+02	2.976E+02	2.967E+02	2.965E+02
IV=	20	2.977E+02	2.977E+02	2.975E+02	2.971E+02	2.966E+02	2.961E+02	2.957E+02	2.957E+02	2.957E+02
IV=	19	2.961E+02	2.961E+02	2.960E+02	2.959E+02	2.957E+02	2.955E+02	2.953E+02	2.952E+02	2.952E+02
IV=	18	2.955E+02	2.955E+02	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.952E+02
IV=	17	2.954E+02	2.953E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02
IV=	16	2.951E+02	2.951E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.951E+02
IV=	15	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02
IV=	14	2.951E+02	2.951E+02	2.950E+02						
IV=	13	2.952E+02	2.952E+02	2.952E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	12	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02

IY= 11	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.952E+02	2.954E+02	2.950E+02
IY= 10	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.955E+02	2.957E+02	2.950E+02
IY= 9	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.953E+02	2.961E+02	2.958E+02	2.950E+02
IY= 8	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.955E+02	2.959E+02	2.955E+02	2.950E+02
IY= 7	2.950E+02	2.951E+02	2.950E+02	2.950E+02	2.951E+02	2.956E+02	2.960E+02	2.956E+02	2.950E+02
IY= 6	3.869E+02	3.701E+02	2.950E+02	2.950E+02	2.953E+02	2.963E+02	2.972E+02	2.969E+02	2.950E+02
IY= 5	1.910E+03	1.911E+03	3.877E+02	2.963E+02	2.959E+02	2.978E+02	2.990E+02	2.985E+02	2.950E+02
IY= 4	1.911E+03	1.909E+03	4.166E+02	2.978E+02	2.966E+02	2.998E+02	3.016E+02	3.006E+02	2.950E+02
IY= 3	1.909E+03	1.913E+03	3.909E+02	2.973E+02	2.974E+02	3.001E+02	3.016E+02	3.031E+02	2.950E+02
IY= 2	3.881E+02	3.629E+02	2.950E+02	2.960E+02	2.981E+02	3.009E+02	3.017E+02	3.043E+02	2.950E+02
IY= 1	2.985E+02	2.971E+02	2.984E+02	3.014E+02	3.001E+02	3.046E+02	3.066E+02	3.050E+02	2.950E+02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IY= 23	1.156E+00	1.157E+00	1.160E+00	1.164E+00	1.170E+00	1.176E+00	1.182E+00	1.187E+00	1.189E+00
IY= 22	1.174E+00	1.174E+00	1.174E+00	1.175E+00	1.176E+00	1.180E+00	1.184E+00	1.188E+00	1.190E+00
IY= 21	1.181E+00	1.181E+00	1.181E+00	1.181E+00	1.183E+00	1.187E+00	1.191E+00	1.194E+00	1.195E+00
IY= 20	1.190E+00	1.190E+00	1.190E+00	1.191E+00	1.192E+00	1.195E+00	1.197E+00	1.198E+00	1.198E+00
IY= 19	1.196E+00	1.196E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IY= 18	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00
IY= 17	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.200E+00
IY= 16	1.201E+00	1.201E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 15	1.200E+00	1.201E+00	1.201E+00						
IY= 14	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 13	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 12	1.200E+00	1.201E+00	1.201E+00						
IY= 11	1.200E+00	1.201E+00							
IY= 10	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.198E+00	1.201E+00
IY= 9	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.195E+00	1.197E+00	1.201E+00
IY= 8	1.198E+00	1.198E+00	1.198E+00	1.199E+00	1.199E+00	1.197E+00	1.196E+00	1.198E+00	1.201E+00
IY= 7	1.193E+00	1.196E+00	1.197E+00	1.198E+00	1.198E+00	1.197E+00	1.196E+00	1.198E+00	1.201E+00
IY= 6	8.972E-01	9.462E-01	1.192E+00	1.198E+00	1.198E+00	1.194E+00	1.191E+00	1.193E+00	1.201E+00
IY= 5	1.949E-01	1.882E-01	9.026E-01	1.192E+00	1.195E+00	1.188E+00	1.183E+00	1.186E+00	1.201E+00
IY= 4	2.010E-01	1.919E-01	8.343E-01	1.185E+00	1.191E+00	1.179E+00	1.173E+00	1.178E+00	1.201E+00
IY= 3	1.914E-01	1.863E-01	8.987E-01	1.188E+00	1.189E+00	1.178E+00	1.173E+00	1.168E+00	1.201E+00
IY= 2	9.058E-01	9.709E-01	1.195E+00	1.194E+00	1.186E+00	1.175E+00	1.172E+00	1.164E+00	1.201E+00
IY= 1	1.186E+00	1.191E+00	1.195E+00	1.185E+00	1.174E+00	1.178E+00	1.161E+00	1.156E+00	1.201E+00
IX= 1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 CSLAB NO= 22 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, ID= 20, ISWEEP= 70, ISTEP= 1									
FIELD VALUES OF P1									
IY= 23	-7.606E-01	-7.779E-01	-8.002E-01	-8.309E-01	-8.578E-01	-8.751E-01	-8.810E-01	-8.503E-01	-8.751E-01
IY= 22	-8.245E-01	-8.194E-01	-8.256E-01	-8.354E-01	-8.463E-01	-8.557E-01	-8.605E-01	-8.370E-01	-8.540E-01
IY= 21	-8.904E-01	-8.882E-01	-8.885E-01	-8.890E-01	-8.892E-01	-8.885E-01	-8.870E-01	-8.626E-01	-8.778E-01
IY= 20	-9.135E-01	-9.136E-01	-9.134E-01	-9.130E-01	-9.123E-01	-9.115E-01	-9.103E-01	-8.884E-01	-9.027E-01
IY= 19	-9.218E-01	-9.211E-01	-9.215E-01	-9.224E-01	-9.244E-01	-9.288E-01	-9.359E-01	-9.277E-01	-9.446E-01
IY= 18	-9.148E-01	-9.123E-01	-9.151E-01	-9.148E-01	-9.196E-01	-9.333E-01	-9.645E-01	-1.011E+00	-1.101E+00
IY= 17	-9.107E-01	-9.081E-01	-9.091E-01	-9.110E-01	-9.165E-01	-9.343E-01	-9.836E-01	-1.113E+00	-1.378E+00
IY= 16	-9.022E-01	-9.020E-01	-9.018E-01	-9.022E-01	-9.052E-01	-9.220E-01	-9.853E-01	-1.258E+00	-2.638E+00
IY= 15	-2.587E-01	-2.861E+01	-3.161E+01	-3.344E+01	-3.502E+01	-3.607E+01	-3.787E+01	-2.532E+01	-5.386E+00
IY= 14	-3.141E-01	-3.269E+01	-3.417E+01	-3.529E+01	-3.622E+01	-3.660E+01	-3.665E+01	-2.875E+01	-1.826E+00
IY= 13	-4.236E-01	-4.258E+01	-4.251E+01	-4.208E+01	-4.142E+01	-4.016E+01	-3.894E+01	-3.018E+01	-1.629E+00
IY= 12	-5.279E-01	-5.719E+01	-5.303E+01	-5.148E+01	-4.893E+01	-4.536E+01	-4.238E+01	-3.189E+01	-1.439E+00
IY= 11	-7.979E+01	-7.388E+01	-7.619E+01	-8.325E+01	-8.046E+01	-6.640E+01	-7.529E+00	-1.080E+02	-1.312E+00
IY= 10	-1.542E+02	-1.522E+02	-1.950E+02	-2.139E+02	-1.844E+02	-1.351E+02	-8.130E+01	-9.689E+00	-1.239E+00
IY= 9	-1.546E+02	-1.643E+02	-1.869E+02	-1.943E+02	-1.680E+02	-1.326E+02	-1.080E+02	-3.378E+01	-1.192E+00
IY= 8	-1.988E+02	-2.040E+02	-2.212E+02	-1.928E+02	-1.650E+02	-1.405E+02	-1.145E+02	-5.019E+01	-1.156E+00
IY= 7	-2.516E+02	-2.871E+02	-3.473E+02	-2.356E+02	-1.835E+02	-1.500E+02	-1.107E+02	-5.149E+01	-1.126E+00
IY= 6	-1.947E+02	-2.925E+02	-7.075E+02	-2.807E+02	-2.042E+02	-1.608E+02	-1.117E+02	-5.133E+01	-1.104E+00
IY= 5	-3.856E+03	-4.847E+03	-3.450E+02	-2.093E+02	-2.175E+02	-1.841E+02	-1.280E+02	-5.447E+01	-1.084E+00
IY= 4	-2.475E+03	-4.569E+03	-5.730E+02	-1.914E+02	-2.302E+02	-2.099E+02	-1.602E+02	-5.429E+01	-1.066E+00
IY= 3	-4.025E+03	-4.329E+03	-3.216E+02	-2.308E+02	-2.271E+02	-2.217E+02	-1.675E+02	-3.112E+01	-1.056E+00
IY= 2	2.988E+02	-8.360E+01	-4.496E+02	-2.665E+02	-2.254E+02	-2.283E+02	-1.571E+02	1.685E+01	-1.046E+00
IY= 1	1.427E+02	-1.833E+01	-1.352E+02	-1.459E+02	-1.709E+02	-2.224E+02	-1.966E+02	9.144E+01	-1.039E+00

IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES C_U1									
IY= 23	-6.417E-03	-1.386E-02	-2.709E-02	-4.105E-02	-5.605E-02	-6.549E-02	-6.952E-02	1.246E-03	
IY= 22	9.436E-03	1.759E-02	2.594E-02	2.818E-02	2.164E-02	5.567E-03	-1.672E-02	2.819E-02	
IY= 21	3.737E-03	6.710E-03	8.434E-03	5.583E-03	-5.437E-03	-2.171E-02	-3.916E-02	1.720E-02	
IY= 20	-7.137E-03	-1.820E-03	-5.164E-03	-1.125E-02	-2.314E-02	-3.678E-02	-4.986E-02	1.287E-02	
IY= 19	2.496E-03	4.891E-03	8.026E-03	1.041E-02	1.190E-02	8.982E-03	-3.547E-03	4.495E-02	
IY= 18	8.854E-03	1.763E-02	3.203E-02	4.978E-02	8.005E-02	1.142E-01	1.337E-01	1.729E-01	
IY= 17	1.251E-02	2.407E-02	4.437E-02	7.209E-02	1.262E-01	2.026E-01	2.895E-01	4.224E-01	
IY= 16	6.112E-03	1.588E-02	3.824E-02	7.465E-02	1.567E-01	3.003E-01	5.559E-01	1.151E+00	
IY= 15	-1.770E+00	-2.763E+00	-3.567E+00	-4.044E+00	-4.495E+00	-4.882E+00	-5.344E+00	-4.467E+00	
IY= 14	-5.704E-01	-1.020E+00	-1.550E+00	-1.943E+00	-2.322E+00	-2.573E+00	-2.745E+00	-3.088E-08	
IY= 13	-1.644E-01	-4.384E-01	-9.427E-01	-1.483E+00	-2.023E+00	-2.307E+00	-2.495E+00	-1.616E-17	
IY= 12	3.031E-01	1.866E-01	-3.202E-01	-8.829E-01	-1.632E+00	-2.228E+00	-2.582E+00	1.990E-15	
IY= 11	-7.843E-01	5.412E-01	1.329E+01	1.752E+01	1.976E+01	1.947E+01	1.683E+01	1.177E-07	
IY= 10	7.907E-01	2.659E+00	6.978E+00	8.995E+00	6.829E+00	4.305E+00	4.059E+00	1.356E-08	
IY= 9	5.282E-01	1.123E+00	2.368E+00	3.712E+00	-1.760E-01	-4.674E+00	-3.556E+00	3.664E-13	
IY= 8	-1.055E+00	-1.118E+00	-2.882E+00	-2.977E+00	-6.745E+00	-8.246E+00	-6.527E+00	3.006E-15	
IY= 7	-8.329E+00	-4.749E+00	-1.088E+01	-1.026E+01	-1.135E+01	-1.022E+01	-7.611E+00	1.083E-14	
IY= 6	-1.999E+01	-2.354E+01	-2.290E+01	-1.490E+01	-1.259E+01	-1.051E+01	-7.857E+00	2.651E-14	
IY= 5	2.398E+01	5.865E+01	1.158E+01	-1.470E+01	-1.296E+01	-1.076E+01	-7.762E+00	7.408E-14	
IY= 4	3.405E+01	8.122E+01	2.096E+01	-1.162E+01	-1.142E+01	-9.040E+00	-5.667E+00	1.928E-13	
IY= 3	1.742E+01	4.826E+01	9.468E+00	-1.102E+01	-5.461E+00	4.136E+00	2.483E+00	4.637E-09	
IY= 2	-1.081E+01	-1.655E+01	-1.580E+01	-8.762E+00	-2.265E+01	8.538E+00	7.772E+00	4.582E-08	
IY= 1	-2.388E+00	4.422E-01	-5.232E+00	-3.658E+00	-6.399E-01	1.352E+01	1.890E+01	1.918E-07	
IX=	1	2	3	4	5	6	7	8	
FIELD VALUES OF V1									
IY= 20	-4.514E-01	-4.366E-01	-4.043E-01	-3.494E-01	-2.784E-01	-2.019E-01	-1.391E-01	-9.158E-02	-7.796E-02
IY= 21	-3.529E-01	-3.461E-01	-3.294E-01	-3.020E-01	-2.672E-01	-2.338E-01	-2.076E-01	-1.818E-01	-1.934E-01
IY= 20	-2.837E-01	-2.621E-01	-2.580E-01	-2.520E-01	-2.469E-01	-2.445E-01	-2.388E-01	-2.199E-01	-2.458E-01
IY= 19	-1.966E-01	-1.985E-01	-2.057E-01	-2.148E-01	-2.320E-01	-2.528E-01	-2.644E-01	-2.538E-01	-2.941E-01
IY= 18	-1.074E-01	-1.113E-01	-1.225E-01	-1.460E-01	-1.838E-01	-2.403E-01	-3.049E-01	-3.589E-01	-4.688E-01
IY= 17	-7.360E-02	-7.508E-02	-8.608E-02	-1.082E-01	-1.451E-01	-2.066E-01	-2.964E-01	-4.224E-01	-6.736E-01
IY= 16	-2.934E-02	-3.612E-02	-4.472E-02	-6.028E-02	-8.642E-02	-1.357E-01	-2.290E-01	-4.185E-01	-1.162E-00
IY= 15	-2.460E-12	-2.555E-12	-4.307E-12	-5.397E-12	-1.110E-11	-2.016E-11	-5.436E-11	-2.439E-07	-2.430E-00
IY= 14	-2.065E+00	-1.192E+00	-6.653E-01	-4.129E-01	-2.919E-01	-2.444E-01	-2.998E-01	-7.426E-01	1.071E-01
IY= 13	-3.167E+00	-2.026E+00	-1.277E+00	-8.234E-01	-5.639E-01	-4.636E-01	-4.391E-01	-3.709E-01	2.349E-01
IY= 12	-2.726E+00	-1.804E+00	-1.262E+00	-9.585E-01	-6.707E-01	-3.676E-01	-3.865E-01	-3.006E-01	2.382E-01
IY= 11	-6.736E-02	-4.646E-09	-4.643E-09	-1.417E-09	1.393E-09	8.082E-09	7.467E-09	-2.447E-10	2.057E-01
IY= 10	-4.462E+00	-6.034E+00	-7.612E+00	-5.781E+00	-2.412E+00	-3.416E-01	-1.637E-01	-2.873E+00	1.737E-01
IY= 9	-4.080E+00	-4.707E+00	-6.152E+00	-5.964E+00	-2.686E+00	-4.323E-01	-1.801E-01	-3.368E+00	1.508E-01
IY= 8	-5.826E+00	-6.391E+00	-7.422E+00	-6.138E+00	-2.841E+00	-8.824E-01	9.780E-01	-2.249E+00	1.308E-01
IY= 7	-6.339E+00	-1.052E+01	-1.201E+01	-7.489E+00	-3.247E+00	-2.927E-02	1.608E+00	-7.530E-01	1.124E-01
IY= 6	-2.490E+01	9.707E+00	-1.962E+01	-7.032E+00	-2.823E+00	7.936E-02	1.321E+00	1.020E+00	9.500E-02
IY= 5	6.155E+01	5.229E+01	-2.072E+01	-1.924E+00	-3.185E+00	-2.051E+00	4.314E-01	2.626E+00	8.145E-02
IY= 4	1.715E+01	9.859E+00	-1.133E+01	-5.544E+00	-3.502E+00	-2.750E+00	-4.235E-02	5.145E+00	6.560E-02
IY= 3	-3.269E+01	-1.830E+01	1.513E+01	2.692E+00	-1.825E+00	-1.380E+00	2.281E+00	7.823E+00	4.874E-02
IY= 2	-7.141E+01	-4.059E+01	1.582E+01	-2.841E+01	-6.616E+01	9.512E+01	2.142E+00	7.730E+00	4.075E-02
IY= 1	-2.611E+01	-9.815E+00	1.651E+01	7.252E+00	3.780E+00	2.365E+00	2.272E+00	7.479E+00	2.001E-02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IY= 23	-1.836E+00	-1.761E+00	-1.597E+00	-1.325E+00	-9.861E-01	-6.222E-01	-3.250E-01	-1.065E-01	-3.689E-09
IY= 22	-9.019E-01	-8.709E-01	-7.989E-01	-6.688E-01	-4.897E-01	-2.638E-01	-1.070E-01	2.133E-02	8.640E-02
IY= 21	-4.998E-01	-4.828E-01	-4.422E-01	-3.663E-01	-2.594E-01	-1.339E-01	-2.663E-02	4.836E-02	8.985E-02
IY= 20	-2.896E-01	-2.799E-01	-2.562E-01	-2.115E-01	-1.484E-01	-7.306E-02	-8.560E-03	3.598E-02	6.182E-02
IY= 19	-1.824E-01	-1.780E-01	-1.678E-01	-1.479E-01	-1.184E-01	-8.034E-02	-4.434E-02	-1.396E-02	-1.770E-03
IY= 18	-1.041E-01	-1.031E-01	-1.012E-01	-9.697E-02	-8.936E-02	-7.680E-02	-6.224E-02	-4.411E-02	-3.761E-02
IY= 17	-5.528E-02	-5.388E-02	-5.570E-02	-6.192E-02	-6.483E-02	-6.742E-02	-6.136E-02	-7.126E-02	
IY= 16	3.724E-02	3.451E-02	2.988E-02	2.267E-02	1.144E-02	-4.126E-03	-2.379E-02	-3.777E-02	-5.536E-02
IY= 15	3.762E+00	3.500E+00	3.268E+00	2.902E+00	2.490E+00	1.869E+00	1.175E+00	3.935E-01	4.502E-02
IY= 14	4.544E+00	4.926E+00	5.116E+00	4.953E+00	4.518E+00	3.657E+00	2.508E+00	1.149E+00	8.097E-01
IY= 13	5.849E+00	6.523E+00	7.010E+00	6.848E+00	6.215E+00	5.026E+00	3.432E+00	1.552E+00	1.059E+00
IY= 12	7.937E+00	8.538E+00	8.966E+00	8.795E+00	8.043E+00	6.397E+00	4.254E+00	1.905E+00	1.056E+00
IY= 11	8.579E+00	2.493E+00	-8.129E+00	-1.177E+01	-1.331E+01	-1.321E+01	-1.274E+01	-1.185E+01	1.019E+00
IY= 10	1.180E+01	1.097E+01	7.415E+00	3.170E+00	-4.521E-01	-2.061E+00	-5.366E+00	-8.654E+00	9.855E-01
IY= 9	1.198E+01	1.083E+01	9.297E+00	6.178E+00	2.376E+00	1.112E+00	-3.231E+00	-6.228E+00	9.586E-01
IY= 8	1.373E+01	9.319E+00	7.380E+00	3.804E+00	1.942E+00	9.005E-01	-2.472E+00	-3.658E+00	9.358E-01
IY= 7	4.362E+01	2.181E+01	5.699E+00	2.692E+00	1.893E+00	1.159E-01	-2.245E+00	-1.281E+00	9.165E-01

IV=	6	1.522E+02	9.940E+01	1.607E+00	1.792E+00	1.158E+00	-1.434E+00	-2.813E+00	-1.426E+00	9.008E-01
IV=	5	8.378E+02	8.114E+02	1.049E+02	1.824E+01	1.841E+00	-6.907E-01	-3.840E+00	-2.595E+00	8.874E-01
IV=	4	8.592E+02	8.302E+02	1.455E+02	3.001E+01	2.550E+00	-6.465E-01	-3.868E+00	-4.205E+00	8.754E-01
IV=	3	8.179E+02	7.943E+02	9.096E+01	1.646E+01	2.157E+00	-2.303E+00	-5.735E+00	-6.580E+00	8.644E-01
IV=	2	1.049E+02	6.745E+01	7.195E+00	6.797E+00	4.337E+00	-3.073E+00	-6.797E+00	-8.400E+00	8.554E-01
IV=	1	2.543E-01	1.257E-01	5.000E+00	4.429E+00	4.913E+00	2.837E-01	-7.564E+00	-1.258E+01	8.411E-01
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IV=	23	5.445E-01	5.568E-01	5.787E-01	5.866E-01	5.526E-01	4.582E-01	3.425E-01	2.564E-01	2.076E-01
IV=	22	3.579E-01	3.587E-01	3.586E-01	3.508E-01	3.268E-01	2.787E-01	2.206E-01	1.635E-01	1.540E-01
IV=	21	2.043E-01	2.038E-01	2.019E-01	1.959E-01	1.833E-01	1.611E-01	1.345E-01	1.074E-01	1.103E-01
IV=	20	1.096E-01	1.096E-01	1.095E-01	1.086E-01	1.061E-01	9.989E-02	9.019E-02	7.847E-02	8.726E-02
IV=	19	5.944E-02	6.002E-02	6.169E-02	6.480E-02	6.871E-02	7.174E-02	7.166E-02	6.827E-02	8.287E-02
IV=	18	4.788E-02	4.785E-02	4.954E-02	5.455E-02	6.349E-02	7.729E-02	9.452E-02	1.171E-01	1.558E-01
IV=	17	4.550E-02	4.226E-02	4.231E-02	4.734E-02	5.878E-02	8.258E-02	1.281E-01	2.373E-01	4.684E-01
IV=	16	2.186E-05	2.037E-05	2.451E-05	5.008E-05	1.558E-04	5.153E-04	1.585E-03	5.467E-03	6.157E-01
IV=	15	1.066E-01	1.072E-01	1.257E-01	1.378E-01	1.462E-01	1.518E-01	1.629E-01	1.450E-01	1.786E-00
IV=	14	2.261E-01	3.730E-01	4.067E-01	3.067E-01	1.860E-01	8.885E-02	4.099E-02	1.121E-02	5.172E-03
IV=	13	3.059E-01	4.101E-01	3.441E-01	2.735E-01	1.883E-01	1.094E-01	5.447E-02	1.666E-02	8.457E-03
IV=	12	3.098E-01	3.540E-01	3.870E-01	3.752E-01	3.241E-01	2.255E-01	1.270E-01	2.771E-02	8.353E-03
IV=	11	3.713E-01	6.777E-02	7.242E-01	1.653E+00	2.249E+00	2.385E+00	2.118E+00	8.184E-01	7.768E-03
IV=	10	9.986E-01	8.328E-01	1.092E+00	2.105E+00	9.587E+00	2.501E+01	2.072E+01	4.124E-01	7.262E-03
IV=	9	1.576E+00	1.126E+00	1.144E+00	2.073E+00	1.700E+01	2.411E+01	4.503E+00	2.388E-01	6.875E-03
IV=	8	4.447E+00	2.556E+00	2.795E+00	6.333E+00	1.859E+01	6.274E+00	6.171E-01	8.773E-02	6.554E-03
IV=	7	1.539E+01	7.923E+00	8.581E+00	1.071E+01	7.084E+00	5.466E+01	2.122E+01	1.140E-02	6.290E-03
IV=	6	4.709E+01	4.057E+01	3.319E+01	8.634E+00	2.492E+00	5.199E+01	1.490E+01	3.302E+02	6.079E-03
IV=	5	3.945E+01	4.055E+01	2.834E+01	2.871E+00	8.813E+01	4.072E+01	2.360E+01	1.190E+01	5.903E-03
IV=	4	3.873E+01	3.921E+01	9.244E+00	1.365E+00	8.191E+01	7.800E+01	8.956E+01	2.994E+01	5.746E-03
IV=	3	3.888E+01	2.982E+01	9.626E+00	1.487E+00	2.647E+00	5.477E+00	3.462E+00	4.974E+01	5.632E-03
IV=	2	7.604E+00	1.110E+01	1.026E+01	2.326E+00	3.214E+00	8.612E+00	5.865E+00	6.051E+01	5.497E-03
IV=	1	2.700E+00	7.338E-01	1.622E+01	2.036E+01	1.526E+01	2.139E+01	1.399E+00	1.036E+00	5.329E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IV=	23	1.273E-01	1.310E-01	1.373E-01	1.369E-01	1.210E-01	8.765E-02	5.419E-02	2.941E-02	2.217E-02
IV=	22	6.101E-02	6.115E-02	6.095E-02	5.827E-02	5.104E-02	5.854E-02	2.573E-02	1.532E-02	1.279E-02
IV=	21	2.667E-02	2.651E-02	2.600E-02	2.448E-02	2.148E-02	1.685E-02	1.214E-02	8.175E-03	7.887E-03
IV=	20	1.088E-02	1.082E-02	1.066E-02	1.022E-02	9.435E-03	8.094E-03	6.533E-03	5.103E-03	5.627E-03
IV=	19	4.422E-03	4.439E-03	4.509E-03	4.639E-03	4.770E-03	4.759E-03	4.514E-03	4.150E-03	5.722E-03
IV=	18	2.979E-03	2.943E-03	3.041E-03	3.383E-03	3.996E-03	4.933E-03	6.146E-03	8.130E-03	1.446E-02
IV=	17	3.029E-03	2.597E-03	2.492E-03	2.826E-03	3.723E-03	5.908E-03	1.131E-02	3.537E-02	1.371E-01
IV=	16	1.457E-07	1.310E-07	1.729E-07	5.052E-07	2.772E-06	1.667E-05	8.979E-05	5.761E-04	3.874E-01
IV=	15	8.625E-02	8.697E-02	1.103E-01	1.267E-01	1.384E-01	1.465E-01	1.628E-01	1.367E-01	3.155E+00
IV=	14	1.708E-01	2.840E-01	3.140E-01	2.366E-01	1.573E-01	6.272E-02	2.735E-02	1.630E-03	5.362E-04
IV=	13	2.314E-01	2.998E-01	2.196E-01	1.604E-01	1.022E-01	5.533E-02	2.444E-02	2.954E-03	1.117E-03
IV=	12	2.140E-01	2.617E-01	2.992E-01	2.856E-01	2.292E-01	1.330E-01	5.626E-02	6.035E-03	1.101E-03
IV=	11	3.418E-01	2.666E-02	9.311E-01	3.209E+00	5.095E+00	5.565E+00	4.658E+00	1.068E+00	9.871E-04
IV=	10	1.707E+00	1.658E+00	2.757E+00	6.470E+00	7.506E+01	2.231E+02	1.799E+02	3.637E+01	8.922E-04
IV=	9	3.412E+00	2.499E+00	2.810E+00	6.672E+00	1.087E+02	1.818E+02	3.148E+01	1.603E+01	8.218E-04
IV=	8	1.841E+01	9.023E+00	1.139E+01	3.452E+01	1.184E+02	3.710E+01	2.989E+00	3.569E+02	7.650E-04
IV=	7	1.912E+01	7.645E+02	5.517E+01	6.181E+01	3.903E+01	2.419E+00	7.816E+01	1.671E+03	7.192E-04
IV=	6	1.522E+04	1.022E+04	9.968E+02	5.456E+01	1.215E+01	2.597E+00	3.288E+01	8.240E+03	6.833E+04
IV=	5	3.407E+04	3.490E+04	8.232E+05	4.397E+02	3.640E+00	1.538E+00	4.646E+01	5.639E+02	6.539E+04
IV=	4	3.341E+04	3.361E+04	3.869E+03	2.756E+02	3.632E+00	4.075E+00	5.056E+00	2.250E+01	6.280E+04
IV=	3	3.313E+04	3.381E+04	3.273E+03	1.872E+02	1.843E+01	4.916E+01	2.621E+01	4.818E+01	6.094E+04
IV=	2	2.746E+03	3.184E+03	3.587E+02	1.492E+01	2.126E+01	8.007E+01	4.655E+01	6.464E+01	5.876E+04
IV=	1	5.965E+00	8.450E-01	8.783E-02	1.234E+01	8.014E+02	1.330E+01	2.225E+00	1.434E+00	5.609E+04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	3.081E+05	3.078E+05	3.071E+05	3.059E+05	3.044E+05	3.027E+05	3.011E+05	2.997E+05	2.992E+05
IV=	22	3.033E+05	3.033E+05	3.031E+05	3.026E+05	3.017E+05	3.006E+05	2.994E+05	2.990E+05	2.990E+05
IV=	21	3.013E+05	3.014E+05	3.015E+05	3.013E+05	3.007E+05	2.998E+05	2.987E+05	2.979E+05	2.977E+05
IV=	20	2.990E+05	2.998E+05	2.987E+05	2.983E+05	2.977E+05	2.972E+05	2.968E+05	2.969E+05	2.969E+05
IV=	19	2.973E+05	2.972E+05	2.971E+05	2.969E+05	2.967E+05	2.965E+05	2.964E+05	2.964E+05	2.964E+05
IV=	18	2.967E+05	2.967E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05	2.964E+05
IV=	17	2.965E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.963E+05
IV=	16	2.962E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	15	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	14	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05

IV= 13	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 12	2.964E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 11	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.963E+05	2.964E+05	2.967E+05	2.962E+05
IV= 10	2.961E+05	2.961E+05	2.960E+05	2.960E+05	2.961E+05	2.963E+05	2.968E+05	2.970E+05	2.962E+05
IV= 9	2.961E+05	2.960E+05	2.960E+05	2.961E+05	2.961E+05	2.967E+05	2.975E+05	2.971E+05	2.962E+05
IV= 8	2.960E+05	2.960E+05	2.960E+05	2.961E+05	2.963E+05	2.969E+05	2.973E+05	2.968E+05	2.962E+05
IV= 7	3.012E+05	2.979E+05	2.959E+05	2.961E+05	2.964E+05	2.970E+05	2.975E+05	2.967E+05	2.962E+05
IV= 6	4.2337E+05	3.977E+05	2.956E+05	2.961E+05	2.966E+05	2.979E+05	2.987E+05	2.981E+05	2.962E+05
IV= 5	1.871E+06	1.884E+06	4.217E+05	3.015E+05	2.973E+05	2.993E+05	3.006E+05	2.998E+05	2.962E+05
IV= 4	1.864E+06	1.873E+06	4.757E+05	3.079E+05	2.983E+05	3.014E+05	3.033E+05	3.018E+05	2.962E+05
IV= 3	1.876E+06	1.882E+06	4.202E+05	3.022E+05	2.987E+05	3.014E+05	3.029E+05	3.043E+05	2.962E+05
IV= 2	4.290E+05	3.815E+05	2.963E+05	2.974E+05	2.994E+05	3.023E+05	3.030E+05	3.054E+05	2.962E+05
IV= 1	3.068E+05	3.010E+05	2.973E+05	2.998E+05	3.027E+05	3.055E+05	3.066E+05	3.082E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF VIST									
IV= 23	2.096E-01	2.129E-01	2.195E-01	2.262E-01	2.271E-01	2.155E-01	1.948E-01	1.710E-01	1.749E-01
IV= 22	1.890E-01	1.893E-01	1.899E-01	1.901E-01	1.883E-01	1.815E-01	1.702E-01	1.569E-01	1.668E-01
IV= 21	1.409E-01	1.410E-01	1.411E-01	1.411E-01	1.407E-01	1.386E-01	1.342E-01	1.269E-01	1.388E-01
IV= 20	9.937E-02	9.990E-02	1.012E-01	1.038E-01	1.074E-01	1.110E-01	1.121E-01	1.087E-01	1.218E-01
IV= 19	7.189E-02	7.305E-02	7.595E-02	8.147E-02	8.908E-02	9.733E-02	1.024E-01	1.011E-01	1.161E-01
IV= 18	6.926E-02	7.003E-02	7.263E-02	7.915E-02	9.079E-02	1.090E-01	1.308E-01	1.517E-01	1.512E-01
IV= 17	6.151E-02	6.190E-02	6.465E-02	7.138E-02	8.351E-02	1.039E-01	1.305E-01	1.433E-01	1.440E-01
IV= 16	2.953E-04	2.653E-04	3.126E-04	4.469E-04	7.882E-04	1.433E-03	2.513E-03	4.669E-03	8.809E-02
IV= 15	1.187E-02	1.190E-02	1.288E-02	1.349E-02	1.589E-02	1.416E-02	1.467E-02	1.284E-02	9.160E-02
IV= 14	2.697E-02	4.409E-02	4.741E-02	3.575E-02	2.267E-02	1.133E-02	5.529E-03	6.939E-03	4.490E-03
IV= 13	3.640E-02	5.048E-02	4.853E-02	4.196E-02	3.122E-02	1.968E-02	1.092E-02	8.459E-03	5.735E-03
IV= 12	4.032E-02	4.310E-02	4.507E-02	4.437E-02	4.124E-02	3.440E-02	2.582E-02	1.146E-02	5.706E-03
IV= 11	3.632E-02	1.551E-02	5.070E-02	7.658E-02	8.834E-02	9.201E-02	8.670E-02	5.644E-02	5.503E-03
IV= 10	5.259E-02	3.766E-02	3.895E-02	6.162E-02	1.102E-01	2.523E-01	2.148E-01	4.208E-02	5.321E-03
IV= 9	6.550E-02	4.570E-02	4.192E-02	5.795E-02	2.393E-01	2.879E-01	5.796E-02	3.202E-02	5.177E-03
IV= 8	9.887E-02	6.519E-02	6.173E-02	1.046E-01	2.628E-01	9.551E-02	1.147E-02	1.941E-02	5.055E-03
IV= 7	1.115E-02	7.390E-03	1.201E-01	1.670E-01	1.157E-01	1.103E-02	5.187E-03	6.996E-03	4.952E-03
IV= 6	1.510E-02	1.449E-02	9.966E-02	1.230E-01	4.599E-02	9.367E-03	6.074E-03	1.191E-02	4.868E-03
IV= 5	4.112E-03	4.241E-03	8.780E-03	1.688E-03	1.921E-02	9.702E-03	1.079E-02	2.261E-02	4.797E-03
IV= 4	4.041E-03	4.118E-03	1.988E-03	6.084E-04	1.662E-02	1.344E-02	1.428E-02	3.586E-02	4.733E-03
IV= 3	4.094E-03	4.221E-03	2.548E-03	1.063E-03	3.423E-02	5.492E-02	4.115E-02	4.622E-02	4.686E-03
IV= 2	1.895E-03	3.485E-03	2.641E-02	3.263E-02	4.373E-02	8.337E-02	6.649E-02	5.097E-02	4.629E-03
IV= 1	1.100E-01	5.736E-02	2.697E-02	3.021E-02	2.616E-02	3.097E-02	7.921E-02	6.743E-02	4.558E-03
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF TMP:									
IV= 23	3.069E+02	3.066E+02	3.059E+02	3.047E+02	3.032E+02	3.015E+02	2.999E+02	2.985E+02	2.980E+02
IV= 22	3.021E+02	3.021E+02	3.021E+02	3.019E+02	3.014E+02	3.005E+02	2.994E+02	2.982E+02	2.978E+02
IV= 21	3.001E+02	3.002E+02	3.003E+02	3.001E+02	2.995E+02	2.986E+02	2.976E+02	2.967E+02	2.965E+02
IV= 20	2.978E+02	2.978E+02	2.978E+02	2.975E+02	2.971E+02	2.966E+02	2.960E+02	2.957E+02	2.957E+02
IV= 19	2.961E+02	2.961E+02	2.960E+02	2.959E+02	2.957E+02	2.955E+02	2.953E+02	2.952E+02	2.953E+02
IV= 18	2.955E+02	2.755E+02	2.954E+02	2.953E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.952E+02
IV= 17	2.954E+02	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02
IV= 16	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.951E+02
IV= 15	2.951E+02	2.950E+02	2.951E+02						
IV= 14	2.951E+02	2.950E+02							
IV= 13	2.952E+02	2.952E+02	2.950E+02						
IV= 12	2.952E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 11	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.953E+02	2.955E+02	2.950E+02
IV= 10	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.956E+02	2.958E+02	2.950E+02
IV= 9	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.955E+02	2.963E+02	2.959E+02	2.950E+02
IV= 8	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.957E+02	2.961E+02	2.956E+02	2.950E+02
IV= 7	3.0000E+02	2.967E+02	2.950E+02	2.950E+02	2.952E+02	2.958E+02	2.963E+02	2.955E+02	2.950E+02
IV= 6	4.320E+02	3.961E+02	2.950E+02	2.950E+02	2.954E+02	2.967E+02	2.975E+02	2.969E+02	2.950E+02
IV= 5	1.864E+03	1.876E+03	4.201E+02	3.002E+02	2.961E+02	2.981E+02	2.994E+02	2.986E+02	2.950E+02
IV= 4	1.856E+03	1.866E+03	4.739E+02	3.067E+02	2.971E+02	3.002E+02	3.021E+02	3.006E+02	2.950E+02
IV= 3	1.869E+03	1.884E+03	4.186E+02	3.010E+02	2.975E+02	3.002E+02	3.017E+02	3.031E+02	2.950E+02
IV= 2	4.273E+02	3.800E+02	2.951E+02	2.962E+02	2.982E+02	3.011E+02	3.017E+02	3.042E+02	2.950E+02
IV= 1	3.056E+02	2.998E+02	2.961E+02	2.986E+02	3.015E+02	3.043E+02	3.054E+02	3.070E+02	2.950E+02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF RHO1									
IV= 23	1.155E+00	1.156E+00	1.158E+00	1.163E+00	1.169E+00	1.175E+00	1.181E+00	1.187E+00	1.189E+00
IV= 22	1.173E+00	1.173E+00	1.173E+00	1.174E+00	1.175E+00	1.179E+00	1.183E+00	1.188E+00	1.190E+00
IV= 21	1.180E+00	1.180E+00	1.180E+00	1.181E+00	1.183E+00	1.187E+00	1.191E+00	1.194E+00	1.195E+00

IV= 20	1.190E+00	1.190E+00	1.190E+00	1.191E+00	1.192E+00	1.195E+00	1.197E+00	1.198E+00	1.198E+00
IV= 19	1.196E+00	1.196E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IV= 18	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00
IV= 17	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00
IV= 16	1.201E+00	1.201E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 15	1.200E+00	1.201E+00	1.201E+00						
IV= 14	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 13	1.200E+00	1.201E+00	1.201E+00						
IV= 12	1.200E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 11	1.200E+00	1.201E+00							
IV= 10	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.199E+00	1.199E+00	1.197E+00	1.198E+00	1.201E+00
IV= 9	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.197E+00	1.195E+00	1.197E+00	1.201E+00
IV= 8	1.199E+00	1.199E+00	1.198E+00	1.199E+00	1.199E+00	1.197E+00	1.195E+00	1.198E+00	1.201E+00
IV= 7	1.178E+00	1.191E+00	1.197E+00	1.198E+00	1.198E+00	1.196E+00	1.195E+00	1.198E+00	1.201E+00
IV= 6	8.186E-01	8.917E-01	1.193E+00	1.198E+00	1.197E+00	1.192E+00	1.189E+00	1.193E+00	1.201E+00
IV= 5	1.829E-01	1.798E-01	8.405E-01	1.178E+00	1.194E+00	1.186E+00	1.182E+00	1.186E+00	1.201E+00
IV= 4	1.862E-01	1.813E-01	7.434E-01	1.153E+00	1.190E+00	1.178E+00	1.171E+00	1.178E+00	1.201E+00
IV= 3	1.820E-01	1.800E-01	8.437E-01	1.174E+00	1.188E+00	1.178E+00	1.172E+00	1.169E+00	1.201E+00
IV= 2	8.316E-01	9.316E-01	1.195E+00	1.193E+00	1.185E+00	1.174E+00	1.172E+00	1.165E+00	1.201E+00
IV= 1	1.161E+00	1.182E+00	1.195E+00	1.185E+00	1.173E+00	1.162E+00	1.158E+00	1.155E+00	1.201E+00
IX*	1	2	3	4	5	6	7	8	9

TIME STP= 1 SWEEP NO= 70 ISLAB NO= 23 ITERN NO= 1

FLCW FIELD AT ITHYD= 1, IZ= 23, ISWEEP= 70, ISTEP= 1
FIELD VALUES OF P1

IV= 23	-7.723E-01	-7.909E-01	-8.118E-01	-8.407E-01	-8.659E-01	-8.826E-01	-8.883E-01	-8.571E-01	-8.826E-01
IV= 22	-8.317E-01	-8.269E-01	-8.328E-01	-8.425E-01	-8.532E-01	-8.624E-01	-8.671E-01	-8.434E-01	-8.606E-01
IV= 21	-8.934E-01	-8.911E-01	-8.915E-01	-8.919E-01	-8.922E-01	-8.915E-01	-8.900E-01	-8.658E-01	-8.809E-01
IV= 20	-9.143E-01	-9.144E-01	-9.142E-01	-9.138E-01	-9.132E-01	-9.122E-01	-9.112E-01	-8.896E-01	-9.037E-01
IV= 19	-9.219E-01	-9.212E-01	-9.216E-01	-9.225E-01	-9.244E-01	-9.286E-01	-9.354E-01	-9.273E-01	-9.428E-01
IV= 18	-9.157E-01	-9.134E-01	-9.141E-01	-9.158E-01	-9.204E-01	-9.336E-01	-9.637E-01	-1.009E+00	-1.097E+00
IV= 17	-9.121E-01	-9.096E-01	-9.106E-01	-9.124E-01	-9.178E-01	-9.351E-01	-9.830E-01	-1.111E+00	-1.372E+00
IV= 16	-9.043E-01	-9.041E-01	-9.039E-01	-9.044E-01	-9.075E-01	-9.242E-01	-9.868E-01	-1.258E+00	-2.642E+00
IV= 15	-2.620E+01	-2.897E+01	-3.210E+01	-3.408E+01	-3.586E+01	-3.711E+01	-3.915E+01	-2.601E+01	-5.451E+00
IV= 14	-3.198E+01	-3.332E+01	-3.491E+01	-3.615E+01	-3.722E+01	-3.774E+01	-3.797E+01	-2.970E+01	-1.845E+00
IV= 13	-4.464E+01	-4.485E+01	-4.474E+01	-4.421E+01	-4.342E+01	-4.203E+01	-4.078E+01	-3.140E+01	-1.651E+00
IV= 12	-5.853E+01	-5.893E+01	-5.860E+01	-5.654E+01	-5.325E+01	-4.884E+01	-4.529E+01	-3.360E+01	-1.432E+00
IV= 11	-7.215E+01	-5.263E+01	-7.305E+01	-7.844E+01	-6.745E+01	-4.801E+01	-8.592E+00	1.235E+02	-1.304E+00
IV= 10	-1.377E+02	-1.687E+02	-2.174E+02	-2.175E+02	-1.798E+02	-1.334E+02	-7.490E+01	1.940E+01	-1.231E+00
IV= 9	-1.404E+02	-1.501E+02	-1.799E+02	-1.934E+02	-1.685E+02	-1.413E+02	-1.097E+02	-2.949E+01	-1.185E+00
IV= 8	-2.134E+02	-1.793E+02	-2.058E+02	-1.862E+02	-1.683E+02	-1.488E+02	-1.174E+02	-4.795E+01	-1.149E+00
IV= 7	6.262E+01	-2.055E+02	-3.428E+02	-2.347E+02	-1.900E+02	-1.570E+02	-1.112E+02	-5.085E+01	-1.120E+00
IV= 6	9.341E+02	-1.021E+01	-6.612E+02	-2.815E+02	-2.113E+02	-1.681E+02	-1.114E+02	-5.119E+01	-1.098E+00
IV= 5	-6.556E+03	-5.457E+03	-2.283E+02	-1.213E+02	-2.258E+02	-1.948E+02	-1.284E+02	-5.391E+01	-1.079E+00
IV= 4	-7.438E+03	-6.657E+03	-2.365E+02	-4.629E+01	-2.426E+02	-2.179E+02	-1.619E+02	-5.266E+01	-1.061E+00
IV= 3	-5.049E+03	-3.895E+03	-3.578E+02	-1.623E+02	-2.266E+02	-2.203E+02	-1.609E+02	-2.680E+01	-1.052E+00
IV= 2	9.499E+02	4.523E+01	-4.635E+02	-2.742E+02	-2.180E+02	-2.160E+02	-1.381E+02	2.824E+01	-1.042E+00
IV= 1	4.356E+02	1.028E+02	-1.084E+02	-1.305E+02	-1.597E+02	-2.113E+02	-1.564E+02	1.472E+02	-1.035E+00
IX*	1	2	3	4	5	6	7	8	9

FIELD VALUES OF U1								
IV= 23	-9.027E-03	-1.833E-02	-3.302E-02	-4.709E-02	-6.114E-02	-6.924E-02	-7.198E-02	5.870E-04
IV= 22	8.887E-03	1.661E-02	2.456E-02	2.669E-02	2.029E-02	4.463E-03	-1.758E-02	2.798E-02
IV= 21	3.777E-03	6.790E-03	8.555E-03	5.711E-03	-5.368E-03	-2.175E-02	-3.932E-02	1.722E-02
IV= 20	-5.529E-04	-1.533E-03	-4.769E-03	-1.008E-02	-2.287E-02	-3.668E-02	-4.988E-02	1.291E-02
IV= 19	2.550E-03	4.978E-03	8.123E-03	1.045E-02	1.182E-02	8.780E-03	-3.804E-03	4.484E-02
IV= 18	8.872E-03	1.766E-02	3.207E-02	4.983E-02	7.997E-02	1.139E-01	1.332E-01	1.725E-01
IV= 17	1.255E-02	2.414E-02	4.444E-02	7.207E-02	1.259E-01	2.021E-01	2.886E-01	4.227E-01
IV= 16	6.544E-03	1.664E-02	3.926E-02	7.561E-02	1.570E-01	2.999E-01	5.559E-01	1.155E+00
IV= 15	-1.763E+00	-2.765E+00	-3.598E+00	-4.107E+00	-4.591E+00	-4.995E+00	-5.665E+00	-4.556E+00
IV= 14	-5.835E+01	-1.043E+00	-1.583E+00	-1.983E+00	-2.379E+00	-2.654E+00	-2.837E+00	-3.071E+00
IV= 13	-1.986E+01	-4.990E+01	-1.023E+00	-1.570E+00	-2.113E+00	-2.408E+00	-2.607E+00	-1.929E+00
IV= 12	2.891E+01	1.415E+01	-4.232E+01	-1.032E+00	-1.813E+00	-2.411E+00	-2.749E+00	1.952E+00
IV= 11	3.340E+01	1.008E+01	1.564E+01	1.909E+01	2.084E+01	2.038E+01	1.784E+01	1.149E+00
IV= 10	1.692E+00	4.978E+00	7.043E+00	6.427E+00	6.279E+00	6.059E+00	5.667E+00	1.814E+00
IV= 9	9.999E-01	2.497E+00	3.444E+00	2.846E+00	-1.378E+00	-4.026E+00	-2.071E+00	6.453E+00

IV= 8	-1.627E+00	6.047E-01	-1.731E+00	-3.123E+00	-6.480E+00	-6.268E+00	-5.216E+00	9.482E-14
IV= 7	-5.895E+00	-1.571E+00	-9.851E+00	-9.494E+00	-9.954E+00	-7.903E+00	-6.951E+00	1.545E-14
IV= 6	-1.434E+01	-1.557E+01	-2.076E+01	-1.240E+01	-8.650E+00	-8.474E+00	-7.543E+00	3.579E-14
IV= 5	2.025E+01	3.674E+01	1.227E+01	-1.104E+01	-1.008E+01	-8.541E+00	-7.286E+00	9.881E-14
IV= 4	3.146E+01	5.775E+01	2.465E+01	-2.125E+00	-9.700E+00	-7.537E+00	-5.172E+00	2.590E-13
IV= 3	1.363E+01	3.109E+01	8.663E+00	-7.835E+00	1.701E+00	5.938E+00	4.244E+00	6.119E-09
IV= 2	-6.298E+00	-8.721E+00	-1.361E+01	-8.226E+00	8.602E+00	1.301E+01	1.070E+01	4.922E-08
IV= 1	3.633E+00	8.192E+00	-1.439E+00	1.722E+01	1.491E+01	2.724E+01	2.722E+01	2.495E-07
IX= 1	2	3	4	5	6	7	8	
FIELD VALUES OF V1								
IV= 22	-4.547E-01	-4.396E-01	-4.068E-01	-3.512E-01	-2.793E-01	-2.017E-01	-1.382E-01	-9.028E-02
IV= 21	-3.501E-01	-3.430E-01	-3.261E-01	-2.971E-01	-2.611E-01	-2.286E-01	-2.000E-01	-1.745E-01
IV= 20	-2.567E-01	-2.549E-01	-2.503E-01	-2.435E-01	-2.375E-01	-2.345E-01	-2.088E-01	-2.106E-01
IV= 19	-1.879E-01	-1.897E-01	-1.945E-01	-2.051E-01	-2.217E-01	-2.421E-01	-2.536E-01	-2.437E-01
IV= 18	-1.006E-01	-1.045E-01	-1.154E-01	-1.385E-01	-1.757E-01	-2.317E-01	-2.960E-01	-3.501E-01
IV= 17	-6.569E-02	-7.006E-02	-8.080E-02	-1.024E-01	-1.386E-01	-1.995E-01	-2.888E-01	-4.151E-01
IV= 16	-2.706E-02	-3.371E-02	-4.200E-02	-5.696E-02	-8.221E-02	-1.303E-01	-2.229E-01	-4.127E-01
IV= 15	-2.335E-12	-2.447E-12	-4.190E-12	-5.295E-12	-1.093E-11	-2.193E-11	-5.445E-11	-2.574E-07
IV= 14	-2.138E+00	-1.379E+00	-7.544E-01	-4.943E-01	-3.614E-01	-3.033E-01	-3.476E-01	-7.753E-01
IV= 13	-3.418E+00	-2.274E+00	-1.508E+00	-1.030E+00	-7.514E-01	-6.057E-01	-5.728E-01	-4.350E-01
IV= 12	-3.114E+00	-2.156E+00	-1.567E+00	-1.219E+00	-8.389E-01	-5.842E-01	-5.690E-01	-3.879E-01
IV= 11	-8.097E-09	-5.793E-09	-3.083E-09	1.105E-08	3.935E-08	4.076E-08	2.917E-08	9.867E-10
IV= 10	-5.671E+00	-6.358E+00	-3.015E+00	1.228E-01	2.389E+00	2.692E+00	1.882E+00	-1.288E+00
IV= 9	-4.366E+00	-4.504E+00	-4.456E+00	-3.888E+00	-2.095E-01	9.419E-01	1.769E+00	-1.766E+00
IV= 8	-7.208E+00	-6.837E+00	-7.530E+00	-5.171E+00	-1.551E+00	4.620E-01	3.094E+00	-1.267E+00
IV= 7	3.352E+00	-1.005E+01	-1.343E+01	-7.460E+00	-2.528E+00	1.203E+00	2.956E+00	-5.641E-01
IV= 6	3.221E+01	1.180E+01	-1.988E+01	-7.036E+00	-2.346E+00	1.059E+00	1.829E+00	8.526E-01
IV= 5	5.762E+01	3.217E+01	-1.692E+01	7.419E-01	-3.203E+00	-1.793E+00	7.797E-01	2.614E+00
IV= 4	1.524E+01	7.237E+00	-1.094E+01	-4.434E+00	-3.888E+00	-2.643E+00	-1.470E+01	5.090E+00
IV= 3	-2.698E+01	-1.051E+01	1.388E+01	1.389E+00	-5.284E-01	-6.070E+01	1.939E+00	7.707E+00
IV= 2	-4.917E+01	-2.224E+01	1.456E+01	-7.622E+01	1.739E+00	1.469E+00	1.997E+00	7.338E+00
IV= 1	-3.091E+01	-1.050E+01	2.309E+01	1.119E+01	6.350E+00	5.382E+00	3.359E+00	7.598E+00
IX= 1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1								
IV= 23	-1.863E+00	-1.787E+00	-1.620E+00	-1.343E+00	-9.985E-01	-6.298E-01	-5.291E-01	-1.079E-01
IV= 22	-9.045E-01	-8.731E-01	-8.001E-01	-6.685E-01	-4.880E-01	-2.809E-01	-1.037E-01	2.445E-02
IV= 21	-4.966E-01	-4.795E-01	-4.385E-01	-3.623E-01	-2.553E-01	-1.303E-01	-1.399E-02	4.993E-02
IV= 20	-2.845E-01	-2.748E-01	-2.512E-01	-2.068E-01	-1.443E-01	-7.018E-02	-7.088E-03	3.627E-02
IV= 19	-1.768E-01	-1.726E-01	-1.626E-01	-1.435E-01	-1.152E-01	-7.880E-02	-4.453E-02	-1.546E-02
IV= 18	-9.988E-02	-9.897E-02	-9.742E-02	-9.401E-02	-8.776E-02	-7.739E-02	-6.542E-02	-4.963E-02
IV= 17	-4.999E-02	-5.067E-02	-5.288E-02	-5.663E-02	-6.145E-02	-6.690E-02	-7.290E-02	-7.091E-02
IV= 16	4.069E-02	3.782E-02	3.272E-02	2.457E-02	1.139E-02	-7.645E-03	-3.289E-02	-5.396E-02
IV= 15	3.731E+00	3.455E+00	3.223E+00	2.860E+00	2.455E+00	1.839E+00	1.142E+00	3.593E-01
IV= 14	4.563E+00	4.943E+00	5.135E+00	4.973E+00	4.534E+00	3.660E+00	2.506E+00	1.135E+00
IV= 13	6.019E+00	6.704E+00	7.177E+00	6.994E+00	6.335E+00	5.106E+00	3.483E+00	1.565E+00
IV= 12	8.474E+00	9.089E+00	9.505E+00	9.273E+00	8.428E+00	6.679E+00	4.465E+00	2.003E+00
IV= 11	6.889E+00	-4.229E+00	-1.084E+01	-1.291E+01	-1.312E+01	-1.237E+01	-1.159E+01	-1.035E+01
IV= 10	1.142E+01	9.972E+00	6.174E+00	1.890E+00	-1.389E+00	-2.637E+00	-5.308E+00	-7.846E+00
IV= 9	1.033E+01	9.119E+00	7.735E+00	5.867E+00	2.923E+00	1.594E+00	-3.197E+00	-5.933E+00
IV= 8	1.877E+01	6.879E+00	5.810E+00	3.361E+00	2.400E+00	1.142E+00	-2.796E+00	-3.672E+00
IV= 7	5.506E+01	2.727E+01	5.954E+00	2.740E+00	2.082E+00	-4.713E+01	-2.940E+00	-1.372E+00
IV= 6	1.614E+02	1.044E+02	4.760E+00	2.382E+00	-1.941E+01	-2.761E+00	-3.518E+00	-1.437E+00
IV= 5	8.288E+02	7.971E+02	1.131E+02	2.343E+01	1.329E+00	-1.405E+00	-4.499E+00	-2.367E+00
IV= 4	8.621E+02	8.235E+02	1.635E+02	3.905E+01	5.533E+00	-5.600E-01	-3.807E+00	-3.564E+00
IV= 3	8.013E+02	7.742E+02	9.804E+01	2.005E+01	1.237E+00	-1.997E+00	-5.263E+00	-5.250E+00
IV= 2	1.103E+02	7.021E+01	1.089E+01	7.762E+00	1.122E+00	-3.262E+00	-5.882E+00	-6.325E+00
IV= 1	2.938E+01	1.223E+01	2.755E+00	1.210E+00	-3.620E+01	-4.145E+00	-8.360E+00	-1.087E+01
IX= 1	2	3	4	5	6	7	8	9
FIELD VALUES OF KE								
IV= 23	5.478E-01	5.612E-01	5.849E-01	5.945E-01	5.613E-01	4.659E-01	3.483E-01	2.403E-01
IV= 22	3.606E-01	3.615E-01	5.616E-01	5.538E-01	3.294E-01	2.805E-01	2.215E-01	1.638E-01
IV= 21	2.041E-01	2.035E-01	2.015E-01	1.953E-01	1.823E-01	1.598E-01	1.331E-01	1.061E-01
IV= 20	1.078E-01	1.078E-01	1.076E-01	1.066E-01	1.039E-01	9.771E-02	8.821E-02	7.676E-02
IV= 19	5.707E-02	5.764E-02	5.926E-02	6.233E-02	6.621E-02	6.935E-02	6.950E-02	6.640E-02
IV= 18	4.554E-02	4.536E-02	4.699E-02	5.188E-02	6.069E-02	7.446E-02	9.185E-02	1.146E-01
IV= 17	4.323E-02	3.996E-02	3.991E-02	4.475E-02	5.588E-02	7.925E-02	1.242E-01	2.328E-01
IV= 16	2.547E-05	2.372E-05	2.744E-05	5.246E-05	1.573E-04	5.157E-04	1.586E-03	5.501E-03
IV= 15	1.052E-01	1.054E-01	1.246E-01	1.384E-01	1.489E-01	1.566E-01	1.690E-01	1.505E-01

IV= 14	2.364E-01	3.842E-01	4.121E-01	3.085E-01	1.874E-01	9.005E-02	4.209E-02	1.137E-02	5.615E-03
IV= 13	3.215E-01	4.417E-01	3.737E-01	2.951E-01	2.017E-01	1.154E-01	5.625E-02	1.725E-02	8.540E-03
IV= 12	3.492E-01	3.971E-01	4.310E-01	4.141E-01	3.544E-01	2.459E-01	1.402E-01	3.051E-02	8.512E-03
IV= 11	2.468E-01	2.346E-01	1.271E+00	2.024E+00	2.430E+00	2.458E+00	2.149E+00	6.910E-01	7.687E-03
IV= 10	1.070E+00	9.319E-01	1.441E+00	3.716E+00	2.119E+01	3.257E+01	2.138E+01	3.105E+01	7.172E-03
IV= 9	1.858E+00	1.458E+00	1.599E+00	2.968E+00	3.265E+01	2.946E+01	5.651E+00	1.953E+01	6.786E-03
IV= 8	4.379E+00	5.025E+00	3.868E+00	1.115E+01	3.320E+01	7.324E+00	1.126E+00	8.098E+02	6.471E-03
IV= 7	1.678E+01	9.185E+00	1.401E+01	2.721E+01	1.558E+01	1.265E+01	3.742E+01	1.291E+02	6.212E-03
IV= 6	5.498E+01	6.241E+01	5.781E+01	2.061E+01	1.110E+01	9.888E+01	1.609E+01	3.142E+02	6.006E-03
IV= 5	3.590E+01	3.780E+01	4.573E+01	4.465E+00	2.822E+00	9.536E+01	2.322E+01	1.121E+01	5.834E-03
IV= 4	3.468E+01	3.571E+01	1.113E+01	1.692E+00	2.080E+00	9.665E+01	6.691E+01	2.713E+01	5.682E-03
IV= 3	3.515E+01	3.687E+01	1.230E+01	1.792E+00	5.270E+00	3.709E+00	2.648E+00	4.102E+01	5.567E-03
IV= 2	8.348E+00	1.628E+01	8.558E+00	3.162E+00	6.847E+00	6.345E+00	5.535E+00	4.621E+01	5.437E-03
IV= 1	3.552E+00	8.425E+01	1.044E+01	1.263E+02	2.857E+01	1.961E+00	3.307E+00	1.071E+00	5.275E-03
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF EP									
IV= 23	1.296E-01	1.337E-01	1.406E-01	1.406E-01	1.246E-01	9.032E-02	5.581E-02	3.027E-02	2.280E-02
IV= 22	6.207E-02	6.225E-02	6.208E-02	5.936E-02	5.197E-02	3.914E-02	2.603E-02	1.545E-02	1.289E-02
IV= 21	2.684E-02	2.667E-02	2.614E-02	2.456E-02	2.148E-02	1.677E-02	1.203E-02	8.078E-03	7.811E-03
IV= 20	1.074E-02	1.067E-02	1.049E-02	1.005E-02	9.230E-03	7.893E-03	6.364E-03	4.971E-03	5.512E-03
IV= 19	4.233E-03	4.247E-03	4.312E-03	4.434E-03	4.561E-03	4.562E-03	4.347E-03	4.017E-03	5.198E-03
IV= 18	2.785E-03	2.748E-03	2.841E-03	3.173E-03	3.772E-03	4.705E-03	5.940E-03	7.974E-03	1.445E-02
IV= 17	2.845E-03	2.417E-03	2.307E-03	2.621E-03	3.479E-03	5.592E-03	1.087E-02	3.498E-02	1.380E-01
IV= 16	1.832E-07	1.644E-07	2.049E-07	5.416E-07	2.813E-06	1.669E-05	9.004E-05	5.816E-04	3.984E-01
IV= 15	8.453E-02	8.474E-02	1.089E-01	1.276E-01	1.424E-01	1.535E-01	1.721E-01	1.446E-01	3.195E+00
IV= 14	1.821E-01	2.985E-01	3.244E-01	2.431E-01	1.421E-01	6.604E-02	2.931E-02	1.665E-03	6.066E-04
IV= 13	2.487E-01	3.233E-01	2.487E-01	1.814E-01	1.151E-01	6.138E-02	2.647E-02	3.107E-03	1.138E-03
IV= 12	2.565E-01	3.109E-01	3.516E-01	3.311E-01	2.622E-01	1.515E-01	6.523E-02	6.972E-03	1.093E-03
IV= 11	1.853E-01	1.717E-01	2.166E+00	4.352E+00	5.722E+00	5.821E+00	4.761E+00	8.284E-01	9.716E-04
IV= 10	1.945E+00	1.969E+00	3.873E+00	1.695E+00	2.189E+02	3.335E+02	2.062E+02	2.469E+01	8.756E-04
IV= 9	4.346E+00	3.638E+00	4.546E+00	1.165E+01	2.434E+02	2.344E+02	4.550E+01	1.186E-01	8.059E-04
IV= 8	1.494E+02	1.150E+01	1.920E+01	7.594E+01	2.716E+02	3.783E+01	6.253E+00	3.165E+02	7.504E-04
IV= 7	2.549E+03	1.152E+03	1.077E+02	2.190E+02	1.024E+02	9.084E+00	1.503E+00	2.015E+03	7.058E-04
IV= 6	1.528E+04	1.495E+04	1.808E+03	2.066E+02	8.782E+01	5.808E+00	3.583E+01	7.649E+03	6.709E-04
IV= 5	2.835E+04	2.990E+04	1.028E+04	7.027E+02	1.838E+01	5.164E+00	5.096E+01	5.154E+02	6.424E-04
IV= 4	2.727E+04	2.799E+04	4.252E+03	3.563E+02	1.511E+01	6.831E+00	5.624E+00	1.941E+01	6.174E-04
IV= 3	2.737E+04	2.870E+04	3.744E+03	2.190E+02	4.692E+01	3.501E+01	2.085E+01	3.609E+01	5.988E-04
IV= 2	2.776E+03	4.259E+03	2.867E+02	3.180E+01	7.796E+01	6.012E+01	4.507E+01	4.314E+01	5.779E-04
IV= 1	8.996E+00	1.039E+00	4.535E-02	1.909E-03	2.052E-01	3.692E+00	8.083E+00	1.506E+00	5.524E-04
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF H1									
IV= 23	3.086E+05	3.083E+05	3.075E+05	3.062E+05	3.046E+05	3.029E+05	3.012E+05	2.997E+05	2.993E+05
IV= 22	3.037E+05	3.037E+05	3.037E+05	3.034E+05	3.028E+05	3.019E+05	3.007E+05	2.991E+05	2.991E+05
IV= 21	3.016E+05	3.016E+05	3.016E+05	3.014E+05	3.008E+05	2.998E+05	2.987E+05	2.978E+05	2.977E+05
IV= 20	2.991E+05	2.990E+05	2.990E+05	2.987E+05	2.983E+05	2.977E+05	2.972E+05	2.968E+05	2.968E+05
IV= 19	2.973E+05	2.973E+05	2.972E+05	2.970E+05	2.969E+05	2.967E+05	2.965E+05	2.964E+05	2.964E+05
IV= 18	2.967E+05	2.966E+05	2.966E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05
IV= 17	2.965E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.963E+05
IV= 16	2.962E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 15	2.962E+05								
IV= 14	2.963E+05	2.963E+05	2.962E+05						
IV= 13	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 12	2.964E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV= 11	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.963E+05	2.965E+05	2.967E+05	2.962E+05
IV= 10	2.961E+05	2.960E+05	2.960E+05	2.960E+05	2.961E+05	2.964E+05	2.969E+05	2.971E+05	2.962E+05
IV= 9	2.961E+05	2.961E+05	2.960E+05	2.961E+05	2.962E+05	2.966E+05	2.976E+05	2.972E+05	2.962E+05
IV= 8	2.961E+05	2.960E+05	2.960E+05	2.961E+05	2.966E+05	2.971E+05	2.977E+05	2.969E+05	2.962E+05
IV= 7	3.077E+05	3.000E+05	2.959E+05	2.961E+05	2.965E+05	2.973E+05	2.979E+05	2.967E+05	2.962E+05
IV= 6	4.667E+05	4.131E+05	2.957E+05	2.962E+05	2.967E+05	2.984E+05	2.991E+05	2.981E+05	2.962E+05
IV= 5	1.856E+06	1.879E+06	4.399E+05	3.061E+05	2.975E+05	2.998E+05	3.011E+05	2.998E+05	2.962E+05
IV= 4	1.837E+06	1.860E+06	5.165E+05	3.200E+05	2.985E+05	3.018E+05	3.040E+05	3.019E+05	2.962E+05
IV= 3	1.869E+06	1.893E+06	4.329E+05	3.058E+05	2.987E+05	3.015E+05	3.032E+05	3.044E+05	2.962E+05
IV= 2	4.577E+05	3.908E+05	2.964E+05	2.976E+05	2.997E+05	3.020E+05	3.029E+05	3.053E+05	2.962E+05
IV= 1	3.163E+05	3.044E+05	2.978E+05	2.998E+05	3.031E+05	3.053E+05	3.071E+05	3.088E+05	2.963E+05
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF VIST									
IV= 23	2.083E-01	2.119E-01	2.190E-01	2.262E-01	2.276E-01	2.163E-01	1.956E-01	1.717E-01	1.757E-01
IV= 22	1.886E-01	1.889E-01	1.896E-01	1.897E-01	1.879E-01	1.810E-01	1.696E-01	1.562E-01	1.662E-01

IV= 21	1.397E-01	1.396E-01	1.399E-01	1.398E-01	1.393E-01	1.370E-01	1.326E-01	1.253E-01	1.373E-01
IV= 20	9.745E-02	9.797E-02	9.924E-02	1.018E-01	1.053E-01	1.089E-01	1.100E-01	1.067E-01	1.199E-01
IV= 19	6.924E-02	7.041E-02	7.330E-02	7.885E-02	8.653E-02	9.488E-02	1.000E-01	9.878E-02	1.138E-01
IV= 18	6.663E-02	6.738E-02	6.994E-02	7.636E-02	8.790E-02	1.061E-01	1.278E-01	1.484E-01	1.480E-01
IV= 17	5.911E-02	5.946E-02	6.215E-02	6.877E-02	8.078E-02	1.011E-01	1.277E-01	1.395E-01	1.417E-01
IV= 16	5.187E-04	3.075E-04	3.306E-04	4.574E-04	7.921E-04	1.434E-03	2.515E-03	4.684E-03	8.558E-02
IV= 15	1.179E-02	1.180E-02	1.283E-02	1.352E-02	1.402E-02	1.438E-02	1.494E-02	1.410E-02	8.948E-02
IV= 14	2.762E-02	4.450E-02	4.713E-02	5.524E-02	2.224E-02	1.105E-02	5.439E-03	6.988E-03	4.678E-03
IV= 13	3.739E-02	5.258E-02	5.054E-02	4.320E-02	3.182E-02	1.952E-02	1.076E-02	8.602E-03	5.769E-03
IV= 12	4.281E-02	4.565E-02	4.756E-02	4.662E-02	4.313E-02	3.592E-02	2.713E-02	1.202E-02	5.692E-03
IV= 11	2.960E-02	2.886E-02	6.717E-02	8.476E-02	9.286E-02	9.359E-02	8.734E-02	5.188E-02	5.474E-03
IV= 10	5.298E-02	3.969E-02	4.826E-02	7.332E-02	1.847E-01	2.862E-01	2.015E-01	3.698E-02	5.287E-03
IV= 9	7.152E-02	5.257E-02	5.060E-02	6.806E-02	3.941E-01	3.333E-01	6.318E-02	2.896E-02	5.143E-03
IV= 8	1.155E-02	7.163E-02	7.012E-02	1.473E-01	3.652E-01	1.276E-01	1.824E-02	1.865E-02	5.022E-03
IV= 7	9.941E-03	6.594E-03	1.640E-01	3.043E-01	2.134E-01	1.585E-02	8.385E-03	7.446E-03	4.921E-03
IV= 6	1.780E-02	2.345E-02	1.663E-01	1.850E-01	1.263E-02	1.515E-02	6.499E-03	1.162E-02	4.838E-03
IV= 5	4.092E-03	4.300E-03	1.533E-02	2.554E-03	3.898E-02	1.585E-02	9.522E-03	2.194E-02	4.769E-03
IV= 4	3.969E-03	4.101E-03	2.621E-03	7.235E-04	2.576E-02	1.231E-02	1.112E-02	3.413E-02	4.706E-03
IV= 3	4.064E-03	4.263E-03	3.637E-03	1.320E-03	5.328E-02	3.533E-02	3.027E-02	4.197E-02	4.658E-03
IV= 2	2.260E-03	5.601E-03	2.299E-02	2.829E-02	5.412E-02	6.027E-02	6.118E-02	4.455E-02	4.603E-03
IV= 1	1.262E-01	6.146E-02	2.164E-02	7.526E-03	3.579E-02	9.377E-02	1.318E-01	6.854E-02	4.535E-03
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF TMP1									
IV= 23	3.074E+02	3.070E+02	3.063E+02	3.050E+02	3.034E+02	3.017E+02	3.000E+02	2.986E+02	2.981E+02
IV= 22	3.025E+02	3.025E+02	3.025E+02	3.022E+02	3.016E+02	3.007E+02	2.995E+02	2.983E+02	2.979E+02
IV= 21	3.004E+02	3.004E+02	3.004E+02	3.002E+02	2.996E+02	2.986E+02	2.976E+02	2.967E+02	2.965E+02
IV= 20	2.979E+02	2.978E+02	2.978E+02	2.975E+02	2.971E+02	2.965E+02	2.960E+02	2.956E+02	2.957E+02
IV= 19	2.961E+02	2.961E+02	2.960E+02	2.954E+02	2.957E+02	2.955E+02	2.953E+02	2.952E+02	2.952E+02
IV= 18	2.955E+02	2.955E+02	2.954E+02	2.953E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.952E+02
IV= 17	2.953E+02	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02
IV= 16	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02
IV= 15	2.951E+02	2.950E+02	2.951E+02						
IV= 14	2.951E+02	2.951E+02	2.950E+02						
IV= 13	2.952E+02	2.952E+02	2.952E+02	2.952E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 12	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 11	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.953E+02	2.955E+02	2.950E+02
IV= 10	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.952E+02	2.957E+02	2.959E+02	2.950E+02
IV= 9	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.957E+02	2.965E+02	2.960E+02	2.950E+02
IV= 8	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.952E+02	2.959E+02	2.965E+02	2.950E+02
IV= 7	3.065E-02	2.988E-02	2.950E+02	2.950E+02	2.950E+02	2.953E+02	2.961E+02	2.967E+02	2.955E+02
IV= 6	4.644E-02	4.114E-02	2.950E+02	2.950E+02	2.950E+02	2.955E+02	2.973E+02	2.979E+02	2.950E+02
IV= 5	1.849E-03	1.872E-03	4.381E-02	3.048E-02	2.963E-02	2.968E-02	2.996E-02	2.999E-02	2.986E-02
IV= 4	1.820E-03	1.852E-03	5.145E-02	3.187E-02	2.973E-02	3.006E-02	3.028E-02	3.007E-02	2.950E-02
IV= 3	1.861E-03	1.885E-03	4.312E-02	3.046E-02	2.976E-02	3.003E-02	3.020E-02	3.032E-02	2.950E-02
IV= 2	4.559E-02	3.897E-02	2.950E+02	2.964E+02	2.985E+02	3.008E+02	3.017E+02	3.041E+02	2.950E+02
IV= 1	3.150E-02	3.032E-02	2.966E+02	2.986E+02	3.018E+02	3.041E+02	3.059E+02	3.076E+02	2.951E+02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF RHO1									
IV= 23	1.153E+00	1.154E+00	1.157E+00	1.162E+00	1.168E+00	1.174E+00	1.181E+00	1.187E+00	1.188E+00
IV= 22	1.171E+00	1.171E+00	1.171E+00	1.172E+00	1.175E+00	1.178E+00	1.183E+00	1.188E+00	1.189E+00
IV= 21	1.180E+00	1.179E+00	1.179E+00	1.180E+00	1.183E+00	1.187E+00	1.191E+00	1.194E+00	1.195E+00
IV= 20	1.189E+00	1.189E+00	1.189E+00	1.190E+00	1.191E+00	1.192E+00	1.195E+00	1.197E+00	1.198E+00
IV= 19	1.196E+00	1.197E+00	1.197E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00
IV= 18	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.200E+00
IV= 17	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 16	1.201E+00	1.201E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 15	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 14	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 13	1.200E+00	1.201E+00	1.201E+00						
IV= 12	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 11	1.200E+00	1.201E+00	1.201E+00						
IV= 10	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.199E+00	1.199E+00	1.197E+00	1.197E+00	1.201E+00
IV= 9	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.196E+00	1.196E+00	1.201E+00
IV= 8	1.198E+00	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.198E+00	1.195E+00	1.194E+00	1.198E+00
IV= 7	1.157E+00	1.183E+00	1.197E+00	1.198E+00	1.198E+00	1.198E+00	1.194E+00	1.193E+00	1.201E+00
IV= 6	7.692E-01	8.610E-01	1.193E+00	1.198E+00	1.196E+00	1.190E+00	1.188E+00	1.193E+00	1.201E+00
IV= 5	1.792E-01	1.791E-01	8.069E-01	1.161E+00	1.193E+00	1.184E+00	1.180E+00	1.186E+00	1.201E+00
IV= 4	1.794E-01	1.787E-01	6.870E-01	1.112E+00	1.189E+00	1.176E+00	1.168E+00	1.177E+00	1.201E+00

IY=	3	1.809E-01	1.807E-01	8.188E-01	1.161E+00	1.188E+00	1.177E+00	1.171E+00	1.168E+00	1.201E+00
IY=	2	7.844E-01	9.105E-01	1.195E+00	1.192E+00	1.184E+00	1.175E+00	1.173E+00	1.165E+00	1.201E+00
IY=	1	1.129E+00	1.170E+00	1.193E+00	1.185E+00	1.172E+00	1.162E+00	1.157E+00	1.154E+00	1.200E+00
IX=	1	2	3	4	5	6	7	8	9	

TIME STP= 1 SWEEP NO= 70 ZSLAB NO= 24 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 24, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF P1

IY= 23	-8.645E-01	-8.621E-01	-8.756E-01	-8.918E-01	-9.034E-01	-9.069E-01	-9.037E-01	-8.668E-01	-8.928E-01
IY= 22	-8.593E-01	-8.542E-01	-8.588E-01	-8.464E-01	-8.551E-01	-8.631E-01	-8.680E-01	-8.453E-01	-8.622E-01
IY= 21	-8.902E-01	-8.878E-01	-8.880E-01	-8.884E-01	-8.890E-01	-8.895E-01	-8.895E-01	-8.671E-01	-8.822E-01
IY= 20	-9.099E-01	-9.098E-01	-9.097E-01	-9.098E-01	-9.101E-01	-9.104E-01	-9.104E-01	-9.046E-01	-9.046E-01
IY= 19	-9.184E-01	-9.178E-01	-9.183E-01	-9.195E-01	-9.220E-01	-9.273E-01	-9.352E-01	-9.282E-01	-9.456E-01
IY= 18	-9.144E-01	-9.122E-01	-9.131E-01	-9.150E-01	-9.203E-01	-9.347E-01	-9.665E-01	-1.014E+00	-1.105E+00
IY= 17	-9.122E-01	-9.099E-01	-9.109E-01	-9.130E-01	-9.190E-01	-9.378E-01	-9.881E-01	-1.119E+00	-1.387E+00
IY= 16	-9.061E-01	-9.060E-01	-9.058E-01	-9.065E-01	-9.096E-01	-9.262E-01	-9.883E-01	-1.259E+00	-2.665E+00
IY= 15	-2.637E+01	-2.919E+01	-3.248E+01	-3.464E+01	-3.665E+01	-3.813E+01	-4.044E+01	-2.669E+01	-5.509E+00
IY= 14	-3.243E+01	-3.383E+01	-3.556E+01	-3.696E+01	-3.819E+01	-3.890E+01	-3.932E+01	-3.067E+01	-1.863E+00
IY= 13	-4.713E+01	-4.732E+01	-4.719E+01	-4.655E+01	-4.561E+01	-4.407E+01	-4.276E+01	-3.267E+01	-1.630E+00
IY= 12	-6.613E+01	-6.650E+01	-6.589E+01	-6.510E+01	-5.879E+01	-5.318E+01	-4.879E+01	-3.552E+01	-1.423E+00
IY= 11	-5.648E+01	-5.638E+01	-5.508E+01	-2.018E+01	-7.374E+00	3.455E+00	5.181E+01	1.522E+02	-1.294E+00
IY= 10	-1.424E+02	-1.662E+02	-1.979E+02	-2.027E+02	-1.716E+02	-1.277E+02	-5.939E+01	4.200E+01	-1.222E+00
IY= 9	-1.131E+02	-1.270E+02	-1.635E+02	-1.887E+02	-1.762E+02	-1.507E+02	-1.071E+02	-1.836E+01	-1.177E+00
IY= 8	-7.417E+01	-1.419E+02	-1.866E+02	-1.810E+02	-1.746E+02	-1.568E+02	-1.186E+02	-4.270E+01	-1.162E+00
IY= 7	5.909E+02	-2.673E+01	-3.209E+02	-2.291E+02	-1.984E+02	-1.640E+02	-1.097E+02	-4.946E+01	-1.113E+00
IY= 6	1.655E+03	2.197E+02	-6.809E+02	-2.539E+02	-2.169E+02	-1.709E+02	-1.081E+02	-5.017E+01	-1.092E+00
IY= 5	-5.181E+03	-3.329E+03	-5.643E+03	-8.010E+01	-2.321E+02	-2.028E+02	-1.240E+02	-5.170E+01	-1.073E+00
IY= 4	-7.880E+03	-5.585E+03	-8.070E+02	2.910E+02	-2.184E+02	-2.245E+02	-1.602E+02	-4.824E+01	-1.056E+00
IY= 3	-2.506E+03	-9.952E+02	-4.688E+02	-6.162E+01	-2.199E+02	-2.162E+02	-1.485E+02	-1.792E+01	-1.047E+00
IY= 2	1.543E+03	4.045E+02	-5.118E+02	-2.833E+02	-2.104E+02	-1.952E+02	-1.144E+02	4.140E+01	-1.037E+00
IY= 1	9.081E+02	3.846E+02	-3.663E+01	-1.280E+02	-1.541E+02	-1.902E+02	-.736E+01	2.119E+02	-1.030E+00
IX=	1	2	3	4	5	6	7	8	9

FIELD VALUES OF U1

IY= 23	-1.220E-02	-2.390E-02	-4.069E-02	-5.523E-02	-6.835E-02	-7.477E-02	-7.568E-02	-4.162E-04
IY= 22	8.177E-03	1.532E-02	2.269E-02	2.664E-02	1.842E-02	2.955E-03	-1.870E-02	2.765E-02
IY= 21	3.881E-03	6.975E-03	8.826E-03	6.019E-03	-5.111E-03	-2.165E-02	-3.939E-02	1.728E-02
IY= 20	-2.892E-04	-1.068E-03	-4.116E-03	-1.017E-02	-2.235E-02	-3.640E-02	-4.982E-02	1.303E-02
IY= 19	2.608E-03	5.078E-03	8.223E-03	1.045E-02	1.161E-02	8.359E-03	-4.364E-03	4.465E-02
IY= 18	8.837E-03	1.762E-02	3.198E-02	4.967E-02	7.956E-02	1.130E-01	1.520E-01	1.716E-01
IY= 17	1.250E-02	2.408E-02	4.429E-02	7.171E-02	1.251E-01	2.005E-01	2.865E-01	4.221E-01
IY= 16	6.956E-03	1.736E-02	4.017E-02	7.633E-02	1.571E-01	2.988E-01	5.542E-01	1.161E+00
IY= 15	-1.761E+00	-2.793E+00	-3.681E+00	-4.240E+00	-4.755E+00	-5.158E+00	-5.619E+00	-4.670E+00
IY= 14	-6.179E-01	-1.104E+00	-1.671E+00	-2.090E+00	-2.513E+00	-2.810E+00	-2.966E+00	-5.217E-08
IY= 13	-2.789E-01	-6.405E-01	-1.206E+00	-1.766E+00	-2.310E+00	-2.610E+00	-2.780E+00	-6.868E-17
IY= 12	2.315E-01	2.017E-03	-6.964E-01	-1.400E+00	-2.229E+00	-2.792E+00	-3.029E+00	7.033E-15
IY= 11	7.224E+00	1.235E+01	1.758E+01	2.102E+01	2.265E+01	2.193E+01	1.906E+01	2.024E-07
IY= 10	3.822E+00	7.114E+00	1.034E+01	1.192E+01	1.155E+01	1.039E+01	8.590E+00	4.238E-08
IY= 9	2.770E+00	4.847E+00	5.319E+00	3.262E+00	3.004E+00	5.981E+01	1.372E+00	5.939E-09
IY= 8	4.053E+00	4.934E+00	1.804E+00	-1.145E+00	-3.411E+00	-9.449E+01	-2.354E+00	7.437E-11
IY= 7	5.379E+00	9.600E+00	-5.573E+00	-6.398E+00	-4.464E+00	-2.934E+00	-5.461E+00	2.808E-12
IY= 6	-3.879E-01	8.088E-01	-1.901E+01	-5.658E+00	-8.141E-01	-5.199E+00	-7.017E+00	1.026E-13
IY= 5	7.156E+00	1.520E+01	6.290E+00	-3.249E+00	-3.840E+00	-4.534E+00	-6.408E+00	2.789E-13
IY= 4	1.569E+01	2.568E+01	1.585E+01	1.251E+01	1.765E+00	-4.797E+00	-4.518E+00	7.545E-13
IY= 3	2.706E+00	2.510E+01	6.926E+00	5.199E+00	7.757E+00	8.382E+00	5.632E+00	1.374E-08
IY= 2	9.163E+00	1.287E+01	-8.310E+00	7.402E+00	1.586E+01	1.616E+01	1.191E+01	8.059E-08
IY= 1	1.855E+01	2.910E+01	3.535E+01	3.732E+01	4.080E+01	4.020E+01	3.410E+01	5.389E-07
IX=	1	2	3	4	5	6	7	8

FIELD VALUES OF V1

IY= 22	-4.595E-01	-4.440E-01	-4.106E-01	-3.539E-01	-2.807E-01	-2.016E-01	-1.369E-01	-8.832E-02	-7.369E-02
IY= 21	-5.463E-01	-3.387E-01	-3.209E-01	-2.903E-01	-2.523E-01	-2.161E-01	-1.886E-01	-1.634E-01	-1.738E-01
IY= 20	-2.473E-01	-2.451E-01	-2.397E-01	-2.316E-01	-2.240E-01	-2.199E-01	-2.140E-01	-1.966E-01	-2.210E-01
IY= 19	-1.759E-01	-1.773E-01	-1.817E-01	-1.914E-01	-2.069E-01	-2.265E-01	-2.378E-01	-2.286E-01	-2.672E-01
IY= 18	-9.088E-02	-9.461E-02	-1.052E-01	-1.276E-01	-1.638E-01	-2.188E-01	-2.824E-01	-3.365E-01	-4.454E-01
IY= 17	-5.845E-02	-6.265E-02	-7.297E-02	-9.377E-02	-1.289E-01	-1.886E-01	-2.769E-01	-4.030E-01	-6.552E-01
IY= 16	-2.351E-02	-2.993E-02	-3.768E-02	-5.160E-02	-7.525E-02	-1.220E-01	-2.120E-01	-4.011E-01	-1.152E+00

IV= 15	-4.360E-12	-4.638E-12	-8.109E-12	-1.036E-11	-2.139E-11	-4.514E-11	-1.085E-10	-5.439E-07	-2.463E+00
IV= 14	-2.376E+00	-1.451E+00	-9.339E-01	-6.584E-01	-5.008E-01	-4.140E-01	-4.221E-01	-8.056E-01	2.007E-01
IV= 13	-3.917E+00	-2.789E+00	-2.005E+00	-1.483E+00	-1.161E+00	-9.569E-01	-8.181E-01	-5.325E-01	3.617E-01
IV= 12	-4.013E+00	-3.000E+00	-2.314E+00	-1.867E+00	-1.421E+00	-1.103E+00	-9.562E-01	-5.463E-01	3.343E-01
IV= 11	-3.275E-08	7.178E-09	9.221E-08	1.386E-07	1.854E-07	1.509E-07	1.043E-07	1.603E-08	2.733E-01
IV= 10	-4.216E+00	2.406E+00	6.411E+00	7.688E+00	7.028E+00	5.631E+00	3.982E+00	5.310E+00	2.239E-01
IV= 9	-3.042E-01	-1.455E+00	-2.336E-02	3.075E+00	4.500E+00	3.968E+00	4.157E+00	1.552E-01	1.914E-01
IV= 8	9.137E-00	-2.122E+00	-5.878E+00	-4.085E+00	3.311E-01	2.464E+00	5.375E+00	-1.211E-01	1.643E-01
IV= 7	2.474E+01	4.871E+00	-1.042E+01	-7.654E+00	-1.934E+00	2.713E+00	4.517E+00	-3.331E-01	1.402E-01
IV= 6	3.807E+01	1.528E+01	-1.674E+01	-6.327E+00	-1.779E+00	2.605E+00	2.604E+00	6.493E-01	1.185E-01
IV= 5	1.723E+01	8.094E+00	-1.347E+01	6.004E+00	-1.354E+00	-2.810E-01	1.572E+00	2.567E+00	1.006E-01
IV= 4	3.135E+00	-3.147E+00	-1.214E+01	6.943E-01	-8.813E-01	-1.648E+00	4.898E-02	4.931E+00	8.080E-02
IV= 3	3.588E+00	1.654E+01	1.613E+01	-3.526E+00	-2.197E+00	-7.151E-01	1.095E+00	7.417E+00	5.983E-02
IV= 2	-2.059E+01	-1.112E+01	7.209E+00	-1.003E+01	-2.755E+00	-7.419E-01	8.817E-01	6.610E+00	5.000E-02
IV= 1	-3.410E+01	-1.614E+01	5.695E+00	8.199E+00	6.878E+00	4.443E+00	2.395E+00	7.038E+00	2.453E-02
IX*	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IV= 23	-1.912E+00	-1.833E+00	-1.660E+00	-1.375E+00	-1.023E+00	-6.455E-01	-3.375E-01	-1.113E-01	-8.097E-09
IV= 22	-9.070E-01	-8.749E-01	-8.004E-01	-6.665E-01	-4.835E-01	-2.744E-01	-9.645E-02	3.104E-02	9.635E-02
IV= 21	-4.891E-01	-4.718E-01	-4.303E-01	-3.535E-01	-2.464E-01	-1.226E-01	-1.820E-02	5.341E-02	9.384E-02
IV= 20	-2.740E-01	-2.644E-01	-2.409E-01	-1.970E-01	-1.358E-01	-6.416E-02	-3.875E-03	3.703E-02	6.135E-02
IV= 19	-1.662E-01	-1.622E-01	-1.528E-01	-1.350E-01	-1.091E-01	-7.604E-02	-4.518E-02	-1.882E-02	-9.806E-03
IV= 18	-9.269E-02	-9.196E-02	-9.108E-02	-8.918E-02	-8.548E-02	-7.934E-02	-7.243E-02	-6.142E-02	-6.426E-02
IV= 17	-4.523E-02	-4.608E-02	-4.895E-02	-5.418E-02	-6.165E-02	-7.174E-02	-8.410E-02	-9.063E-02	-1.233E-01
IV= 16	4.538E-02	4.221E-02	3.609E-02	2.580E-02	8.127E-03	-1.848E-02	-5.628E-02	-9.579E-02	-1.566E-01
IV= 15	3.548E+00	3.244E+00	3.013E+00	2.665E+00	2.279E+00	1.682E+00	1.007E+00	2.727E-01	-3.389E-02
IV= 14	4.477E+00	4.855E+00	5.053E+00	4.898E+00	4.459E+00	3.573E+00	2.411E+00	1.055E+00	9.128E-01
IV= 13	6.264E+00	6.984E+00	7.429E+00	7.209E+00	6.499E+00	5.195E+00	3.509E+00	1.530E+00	1.066E+00
IV= 12	1.000E+01	1.065E+01	1.100E+01	1.058E+01	9.477E+00	7.453E+00	5.008E+00	2.209E+00	1.020E+00
IV= 11	-2.806E+00	-8.211E+00	-1.098E+01	-1.116E+01	-1.018E+01	-8.980E+00	-7.993E+00	-6.970E+00	9.827E-01
IV= 10	1.039E+01	3.712E+00	-8.218E+01	-2.624E+00	-3.081E+00	-3.286E+00	-4.259E+00	-5.652E+00	9.516E-01
IV= 9	1.507E+01	6.371E+00	2.704E+00	1.523E+00	1.085E+00	2.314E+01	-2.613E+00	-4.742E+00	9.279E-01
IV= 8	2.587E+01	1.144E+01	4.307E+00	2.515E+00	1.733E+00	7.994E+00	-2.764E+00	-3.257E+00	9.082E-01
IV= 7	5.254E+01	2.817E+01	1.112E+01	4.371E+00	1.212E+00	-1.350E+00	-3.186E+00	-1.235E+00	8.916E-01
IV= 6	1.381E+02	9.373E+01	2.118E+01	4.020E+00	-2.300E+00	-3.109E+00	-3.687E+00	-1.107E+00	8.779E-01
IV= 5	8.025E+02	7.679E+02	1.196E+02	2.518E+01	1.962E+00	-2.071E+00	-4.510E+00	-1.655E+00	8.666E-01
IV= 4	8.493E+02	8.191E+02	1.894E+02	5.637E+01	9.713E+00	3.369E+00	-3.282E+00	-3.225E+00	8.563E-01
IV= 3	7.514E+02	6.980E+02	9.723E+01	1.121E+01	-9.712E-01	-2.360E+00	-4.145E+00	-2.862E+00	8.475E-01
IV= 2	9.298E+01	6.182E+01	2.085E+01	5.421E+00	1.341E+00	-9.326E-01	-3.003E+00	-2.056E+00	8.380E-01
IV= 1	2.059E+01	6.759E+00	-3.747E+00	-5.700E+00	-5.462E+00	-5.948E+00	-6.394E+00	-6.622E+00	8.249E-01
IX*	1	2	3	4	5	6	7	8	9
FIELD VALUES OF KE									
IV= 23	5.519E-01	5.667E-01	5.930E-01	6.054E-01	5.737E-01	4.774E-01	3.573E-01	2.465E-01	2.166E-01
IV= 22	3.644E-01	3.655E-01	3.658E-01	3.580E-01	3.332E-01	2.832E-01	2.229E-01	1.642E-01	1.548E-01
IV= 21	2.038E-01	2.032E-01	2.010E-01	1.945E-01	1.809E-01	1.578E-01	1.309E-01	1.040E-01	1.073E-01
IV= 20	1.053E-01	1.053E-01	1.048E-01	1.036E-01	1.007E-01	9.445E-02	8.519E-02	7.414E-02	8.322E-02
IV= 19	5.371E-02	5.426E-02	5.581E-02	5.878E-02	6.260E-02	6.583E-02	6.627E-02	6.352E-02	7.826E-02
IV= 18	4.186E-02	4.178E-02	4.333E-02	4.804E-02	5.662E-02	7.023E-02	8.765E-02	1.106E-01	1.510E-01
IV= 17	3.985E-02	3.657E-02	3.642E-02	4.097E-02	5.160E-02	7.421E-02	1.180E-01	2.247E-01	4.600E-01
IV= 16	3.071E-05	2.845E-05	3.098E-05	5.428E-05	1.576E-04	5.160E-04	1.593E-03	5.565E-03	6.102E-01
IV= 15	9.765E-02	9.775E-02	1.193E-01	1.372E-01	1.515E-01	1.622E-01	1.765E-01	1.576E-01	1.772E+00
IV= 14	2.631E-01	4.133E-01	4.272E-01	5.136E-01	1.907E-01	9.225E-02	4.344E-02	1.078E-02	6.700E-03
IV= 13	3.646E-01	5.266E-01	4.539E-01	5.516E-01	2.341E-01	1.274E-01	5.860E-02	1.732E-02	8.676E-03
IV= 12	4.732E-01	5.310E-01	5.648E-01	5.295E-01	4.431E-01	3.042E-01	1.735E-01	3.655E-02	8.147E-03
IV= 11	3.057E-01	7.662E-01	1.525E+00	2.139E+00	2.469E+00	2.457E+00	2.067E+00	4.552E-01	7.458E-03
IV= 10	2.150E+00	4.226E+00	8.596E+00	1.369E+01	4.047E+01	4.256E+01	2.139E+01	1.693E-01	6.941E-03
IV= 9	2.459E+00	3.299E+00	8.063E+00	1.840E+01	9.889E+01	6.933E+01	9.135E+00	1.223E-01	6.569E-03
IV= 8	7.701E+00	4.299E+00	8.808E+00	9.692E+01	1.103E+02	5.137E+01	1.979E+00	6.184E-02	6.271E-03
IV= 7	2.181E+01	2.172E+01	5.341E+01	1.337E+02	7.761E+01	5.909E+00	5.868E-01	1.071E-02	6.029E-03
IV= 6	7.905E-01	1.546E+02	8.372E+01	6.343E+01	3.259E+01	1.252E+00	1.758E-01	2.423E-02	5.835E-03
IV= 5	3.090E+01	3.431E+01	1.430E+02	8.633E+00	8.633E+00	1.962E+00	2.396E-01	9.364E-02	5.676E-03
IV= 4	2.870E+01	3.062E+01	2.424E+01	2.532E+00	1.165E+00	1.559E+00	5.044E-01	2.218E-01	5.534E-03
IV= 3	2.994E+01	3.286E+01	2.263E+01	1.924E+00	1.044E+00	1.217E+00	1.715E+00	2.886E-01	5.420E-03
IV= 2	1.122E+01	8.474E+01	1.445E+01	4.218E+00	6.293E+00	6.515E+00	5.384E+00	2.580E-01	5.300E-03
IV= 1	3.634E+00	2.534E+00	3.972E+00	5.048E+00	6.044E+00	6.475E+00	5.558E+00	9.547E-01	5.147E-03
IX*	1	2	3	4	5	6	7	8	9
FIELD VALUES OF EP									
IV= 23	1.321E+01	1.369E-01	1.448E-01	1.456E-01	1.296E-01	9.429E-02	5.833E-02	3.164E-02	2.384E-02

IV=	22	6.353E-02	6.376E-02	6.366E-02	6.092E-02	5.331E-02	4.004E-02	2.650E-02	1.564E-02	1.304E-02
IV=	21	2.707E-02	2.690E-02	2.633E-02	2.468E-02	2.147E-02	1.664E-02	1.185E-02	7.923E-03	7.686E-03
IV=	20	1.054E-02	1.046E-02	1.025E-02	9.780E-03	8.926E-03	7.591E-03	6.104E-03	4.770E-03	5.331E-03
IV=	19	3.967E-03	3.978E-03	4.025E-03	4.141E-03	4.260E-03	4.274E-03	4.096E-03	3.812E-03	4.999E-03
IV=	18	2.510E-03	2.473E-03	2.559E-03	2.873E-03	3.450E-03	4.368E-03	5.620E-03	7.706E-03	1.435E-02
IV=	17	2.573E-03	2.156E-03	2.042E-03	2.328E-03	3.126E-03	5.122E-03	1.018E-02	3.410E-02	1.378E-01
IV=	16	2.425E-07	2.162E-07	2.458E-07	5.700E-07	2.820E-06	1.671E-05	9.061E-05	5.918E-04	4.116E-01
IV=	15	7.557E-02	7.569E-02	1.021E-01	1.258E-01	1.461E-01	1.618E-01	1.837E-01	1.550E-01	3.280E+00
IV=	14	2.136E-01	3.393E-01	3.535E-01	2.597E-01	1.537E-01	7.295E-02	3.261E-02	1.538E-03	7.905E-04
IV=	13	3.001E-01	4.355E-01	3.374E-01	2.441E-01	1.512E-01	7.634E-02	3.049E-02	3.131E-03	1.165E-03
IV=	12	4.050E-01	4.808E-01	5.274E-01	4.787E-01	5.664E-01	2.084E-01	8.977E-02	9.141E-03	1.060E-03
IV=	11	2.553E-01	1.012E+00	2.846E+00	4.726E+00	5.862E+00	5.819E+00	4.554E+00	4.429E-01	9.286E-04
IV=	10	7.944E+00	4.203E+01	1.136E+02	1.886E+02	5.732E+02	5.278E+02	2.280E+02	9.564E+02	8.336E+04
IV=	9	1.338E+02	6.023E+01	1.442E+02	3.513E+02	1.590E+03	9.137E+02	8.514E+01	5.875E+02	7.675E+04
IV=	8	7.927E+02	3.173E+02	2.043E+02	1.860E+03	1.845E+03	3.979E+02	1.232E+01	2.112E-02	7.160E+04
IV=	7	3.606E+03	3.216E+03	1.150E+03	2.560E+03	1.215E+03	5.883E+01	2.485E+00	1.523E+03	6.749E+04
IV=	6	2.059E+04	3.631E+04	3.057E+03	1.327E+03	3.734E+02	7.614E+00	3.930E+01	5.181E+03	6.425E+04
IV=	5	2.115E+04	2.375E+04	3.681E+04	1.288E+03	7.174E+01	1.263E+01	5.818E+01	3.936E+02	6.165E+04
IV=	4	1.947E+04	2.079E+04	7.368E+03	4.739E+02	6.984E+01	2.136E+01	2.491E+00	1.435E+01	5.935E+04
IV=	3	2.012E+04	2.234E+04	6.076E+03	2.718E+02	3.828E+01	1.729E+01	1.383E+01	2.129E+01	5.752E+04
IV=	2	3.152E+03	2.072E+04	1.897E+03	1.088E+02	8.018E+01	6.487E+01	4.562E+01	1.800E+01	5.862E+04
IV=	1	9.310E+00	5.423E+00	1.064E+01	1.525E+01	1.997E+01	2.215E+01	1.761E+01	1.267E+00	5.323E+04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	3.092E+05	3.088E+05	3.080E+05	3.067E+05	3.050E+05	3.031E+05	3.014E+05	2.999E+05	2.994E+05
IV=	22	3.043E+05	3.042E+05	3.041E+05	3.038E+05	3.031E+05	3.021E+05	3.008E+05	2.995E+05	2.991E+05
IV=	21	3.019E+05	3.019E+05	3.019E+05	3.016E+05	3.009E+05	2.998E+05	2.987E+05	2.978E+05	2.977E+05
IV=	20	2.991E+05	2.991E+05	2.990E+05	2.987E+05	2.983E+05	2.977E+05	2.972E+05	2.968E+05	2.968E+05
IV=	19	2.972E+05	2.972E+05	2.971E+05	2.970E+05	2.968E+05	2.965E+05	2.964E+05	2.964E+05	2.964E+05
IV=	18	2.966E+05	2.966E+05	2.965E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05
IV=	17	2.965E+05	2.965E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.963E+05
IV=	16	2.962E+05	2.963E+05	2.962E+05						
IV=	15	2.962E+05								
IV=	14	2.962E+05	2.963E+05	2.962E+05						
IV=	13	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	12	2.964E+05	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	11	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.963E+05	2.964E+05	2.966E+05	2.966E+05	2.966E+05
IV=	10	2.961E+05	2.960E+05	2.960E+05	2.961E+05	2.961E+05	2.962E+05	2.965E+05	2.970E+05	2.972E+05
IV=	9	2.962E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.971E+05	2.971E+05	2.977E+05	2.974E+05
IV=	8	2.986E+05	2.964E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	7	3.231E+05	3.063E+05	2.964E+05	2.962E+05	2.966E+05	2.979E+05	2.983E+05	2.967E+05	2.962E+05
IV=	6	4.887E+05	4.245E+05	2.962E+05	2.971E+05	2.968E+05	2.991E+05	2.995E+05	2.980E+05	2.962E+05
IV=	5	1.864E+06	1.891E+06	4.478E+05	3.110E+05	2.976E+05	3.006E+05	3.016E+05	2.998E+05	2.962E+05
IV=	4	1.835E+06	1.886E+06	5.459E+05	3.367E+05	3.042E+05	3.025E+05	3.049E+05	3.021E+05	2.962E+05
IV=	3	1.883E+06	1.909E+06	4.621E+05	3.140E+05	3.005E+05	3.019E+05	3.037E+05	3.046E+05	2.962E+05
IV=	2	4.850E+05	4.109E+05	3.039E+05	2.992E+05	3.003E+05	3.019E+05	3.038E+05	3.054E+05	2.962E+05
IV=	1	3.373E+05	3.192E+05	3.061E+05	3.048E+05	3.061E+05	3.075E+05	3.085E+05	3.097E+05	2.964E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IV=	23	2.072E+01	2.111E+01	2.186E+01	2.265E+01	2.286E+01	2.176E+01	1.969E+01	1.729E+01	1.771E+01
IV=	22	1.881E+01	1.885E+01	1.892E+01	1.894E+01	1.874E+01	1.802E+01	1.687E+01	1.552E+01	1.653E+01
IV=	21	1.381E+01	1.381E+01	1.381E+01	1.379E+01	1.372E+01	1.347E+01	1.301E+01	1.229E+01	1.349E+01
IV=	20	9.471E-02	9.519E-02	9.639E-02	9.879E-02	1.023E-01	1.058E-01	1.070E-01	1.037E-01	1.169E-01
IV=	19	6.545E-02	6.661E-02	6.950E-02	7.506E-02	8.280E-02	9.125E-02	9.648E-02	9.527E-02	1.103E-01
IV=	18	6.278E-02	6.351E-02	6.602E-02	7.229E-02	8.363E-02	1.016E-01	1.230E-01	1.428E-01	1.431E-01
IV=	17	5.554E-02	5.583E-02	5.844E-02	6.490E-02	7.667E-02	9.677E-02	1.232E-01	1.333E-01	1.382E-01
IV=	16	3.499E-04	3.368E-04	3.515E-04	4.653E-04	7.927E-04	1.434E-03	2.520E-03	4.711E-03	8.142E-02
IV=	15	1.136E-02	1.136E-02	1.255E-02	1.346E-02	1.415E-02	1.464E-02	1.527E-02	1.443E-02	8.613E-02
IV=	14	2.916E-02	4.531E-02	4.646E-02	3.407E-02	2.129E-02	1.050E-02	5.208E-03	6.804E-03	5.110E-03
IV=	13	3.987E-02	5.731E-02	5.496E-02	4.558E-02	3.261E-02	1.913E-02	1.014E-02	8.625E-03	5.815E-03
IV=	12	4.986E-02	5.279E-02	5.444E-02	5.271E-02	4.822E-02	3.995E-02	3.017E-02	1.316E-02	5.635E-03
IV=	11	3.294E-02	5.215E-02	7.358E-02	8.713E-02	9.361E-02	9.338E-02	8.605E-02	4.211E-02	5.392E-03
IV=	10	5.237E-02	3.823E-02	5.856E-02	8.948E-02	2.572E-01	3.089E-01	1.807E-01	2.696E-02	5.201E-03
IV=	9	4.070E-03	1.626E-02	4.059E-02	9.197E-02	5.536E-01	4.735E-01	8.821E-02	2.292E-02	5.060E-03
IV=	8	6.734E-03	5.242E-03	3.419E-02	4.545E-01	5.931E-01	2.227E-01	2.860E-02	1.630E-02	4.944E-03
IV=	7	1.187E-02	1.320E-02	8.737E-02	6.283E-01	4.462E-01	5.341E-02	1.247E-02	6.783E-03	4.848E-03
IV=	6	2.753E-02	5.421E-02	2.064E-01	2.729E-01	2.559E-01	1.853E-02	7.080E-03	1.020E-02	4.769E-03
IV=	5	4.063E-03	4.463E-03	4.997E-02	5.209E-03	9.351E-02	2.744E-02	8.884E-03	2.005E-02	4.704E-03

IY= 4	3.808E-03	4.059E-03	7.175E-03	1.218E-03	1.750E-03	1.024E-02	9.194E-03	3.086E-02	4.644E-03
IY= 3	4.012E-03	4.370E-03	7.587E-03	1.226E-03	2.562E-03	7.717E-03	1.914E-02	3.520E-02	4.596E-03
IY= 2	3.593E-03	3.119E-02	9.905E-03	1.473E-02	4.446E-02	5.889E-02	5.719E-02	3.329E-02	4.545E-03
IY= 1	1.276E-01	1.066E-01	1.334E-01	1.504E-01	1.646E-01	1.704E-01	1.579E-01	6.472E-02	4.479E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IY= 23	3.080E+02	3.076E+02	3.068E+02	3.054E+02	3.038E+02	3.019E+02	3.002E+02	2.987E+02	2.980E+02
IY= 22	3.031E+02	3.030E+02	3.029E+02	3.026E+02	3.019E+02	3.009E+02	2.996E+02	2.964E+02	2.980E+02
IY= 21	3.007E+02	3.007E+02	3.007E+02	3.007E+02	2.997E+02	2.986E+02	2.976E+02	2.966E+02	2.965E+02
IY= 20	2.979E+02	2.979E+02	2.978E+02	2.975E+02	2.971E+02	2.965E+02	2.960E+02	2.956E+02	2.956E+02
IY= 19	2.961E+02	2.961E+02	2.960E+02	2.958E+02	2.956E+02	2.955E+02	2.953E+02	2.952E+02	2.952E+02
IY= 18	2.955E+02	2.954E+02	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.951E+02
IY= 17	2.953E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02
IY= 16	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IY= 15	2.951E+02	2.950E+02							
IY= 14	2.951E+02	2.951E+02	2.950E+02						
IY= 13	2.952E+02	2.951E+02	2.950E+02						
IY= 12	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IY= 11	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.952E+02	2.954E+02	2.956E+02	2.950E+02	2.950E+02
IY= 10	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.953E+02	2.958E+02	2.960E+02	2.950E+02
IY= 9	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.951E+02	2.959E+02	2.965E+02	2.962E+02	2.950E+02
IY= 8	2.974E+02	2.952E+02	2.950E+02	2.952E+02	2.953E+02	2.962E+02	2.988E+02	2.958E+02	2.950E+02
IY= 7	3.218E+02	3.051E+02	2.952E+02	2.950E+02	2.954E+02	2.967E+02	2.971E+02	2.955E+02	2.950E+02
IY= 6	4.868E+02	4.228E+02	2.950E+02	2.959E+02	2.957E+02	2.979E+02	2.983E+02	2.968E+02	2.950E+02
IY= 5	1.856E+03	1.887E+03	4.460E+02	3.098E+02	2.966E+02	2.994E+02	3.004E+02	2.988E+02	2.950E+02
IY= 4	1.828E+03	1.858E+03	5.437E+02	3.354E+02	3.030E+02	3.012E+02	3.037E+02	3.009E+02	2.950E+02
IY= 3	1.875E+03	1.901E+03	4.602E+02	3.126E+02	2.993E+02	3.007E+02	3.025E+02	3.024E+02	2.950E+02
IY= 2	4.821E+02	4.092E+02	3.027E+02	2.980E+02	2.991E+02	3.007E+02	3.016E+02	3.041E+02	2.950E+02
IY= 1	3.360E+02	3.179E+02	3.049E+02	3.036E+02	3.049E+02	3.063E+02	3.073E+02	3.085E+02	2.950E+02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IY= 23	1.150E+00	1.152E+00	1.155E+00	1.160E+00	1.166E+00	1.173E+00	1.180E+00	1.186E+00	1.188E+00
IY= 22	1.169E+00	1.169E+00	1.170E+00	1.171E+00	1.173E+00	1.178E+00	1.182E+00	1.167E+00	1.189E+00
IY= 21	1.178E+00	1.178E+00	1.178E+00	1.180E+00	1.182E+00	1.186E+00	1.191E+00	1.194E+00	1.195E+00
IY= 20	1.189E+00	1.189E+00	1.190E+00	1.191E+00	1.193E+00	1.195E+00	1.197E+00	1.198E+00	1.198E+00
IY= 19	1.197E+00	1.197E+00	1.197E+00	1.198E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IY= 18	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.200E+00
IY= 17	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 16	1.201E+00	1.201E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 15	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.200E+00	1.201E+00	1.201E+00
IY= 14	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IY= 13	1.200E+00	1.201E+00	1.201E+00						
IY= 12	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IY= 11	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IY= 10	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.197E+00	1.197E+00	1.201E+00
IY= 9	1.200E+00	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.193E+00	1.196E+00	1.201E+00
IY= 8	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.198E+00	1.194E+00	1.192E+00	1.197E+00	1.201E+00
IY= 7	1.107E+00	1.161E+00	1.196E+00	1.198E+00	1.197E+00	1.192E+00	1.191E+00	1.198E+00	1.201E+00
IY= 6	7.397E-01	8.398E-01	1.193E+00	1.194E+00	1.196E+00	1.187E+00	1.186E+00	1.193E+00	1.201E+00
IY= 5	1.811E-01	1.820E-01	7.900E-01	1.143E+00	1.192E+00	1.181E+00	1.178E+00	1.186E+00	1.201E+00
IY= 4	1.788E-01	1.801E-01	6.465E-01	1.059E+00	1.167E+00	1.173E+00	1.165E+00	1.177E+00	1.201E+00
IY= 3	1.842E-01	1.845E-01	7.662E-01	1.132E+00	1.181E+00	1.176E+00	1.169E+00	1.168E+00	1.201E+00
IY= 2	7.446E-01	8.692E-01	1.165E+00	1.185E+00	1.182E+00	1.176E+00	1.173E+00	1.165E+00	1.201E+00
IY= 1	1.063E+00	1.119E+00	1.162E+00	1.166E+00	1.160E+00	1.155E+00	1.152E+00	1.151E+00	1.200E+00
IX= 1	2	3	4	5	6	7	8	9	

TIME STP# 1 SWEEP NO= 70 ZSLAB NO= 25 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 25, ISWEEP= 70, ISTEP= 1
 FIELD VALUES OF PI

IY= 23	-8.174E-01	-8.377E-01	-8.514E-01	-8.735E-01	-8.926E-01	-9.058E-01	-9.103E-01	-8.774E-01	-9.046E-01
IY= 22	-8.495E-01	-8.458E-01	-8.516E-01	-8.611E-01	-8.719E-01	-8.814E-01	-8.864E-01	-8.626E-01	-8.804E-01
IY= 21	-9.002E-01	-8.978E-01	-8.983E-01	-8.991E-01	-8.999E-01	-8.997E-01	-8.986E-01	-8.751E-01	-8.898E-01
IY= 20	-9.157E-01	-9.156E-01	-9.156E-01	-9.154E-01	-9.152E-01	-9.145E-01	-9.135E-01	-8.929E-01	-9.061E-01
IY= 19	-9.217E-01	-9.211E-01	-9.215E-01	-9.224E-01	-9.241E-01	-9.278E-01	-9.336E-01	-9.254E-01	-9.405E-01
IY= 18	-9.178E-01	-9.158E-01	-9.164E-01	-9.179E-01	-9.219E-01	-9.333E-01	-9.594E-01	-9.998E-01	-1.081E+00

IV=	17	-9.152E-01	-9.131E-01	-9.140E-01	-9.157E-01	-9.205E-01	-9.361E-01	-9.792E-01	-1.098E+00	-1.344E+00
IV=	16	-9.095E-01	-9.094E-01	-9.096E-01	-9.101E-01	-9.131E-01	-9.287E-01	-9.872E-01	-1.245E+00	-2.603E+00
IV=	15	-2.626E-01	-2.916E-01	-3.278E-01	-3.538E-01	-3.793E-01	-3.999E+01	-4.287E+01	-2.787E+01	-5.570E+00
IV=	14	-3.282E-01	-3.435E-01	-3.640E-01	-3.818E-01	-3.985E-01	-4.105E-01	-4.191E+01	-3.248E+01	-1.909E+00
IV=	13	-5.262E-01	-5.276E-01	-5.257E-01	-5.165E-01	-5.035E-01	-4.844E-01	-4.693E+01	-3.520E+01	-1.620E+00
IV=	12	-9.243E+01	-9.233E+01	-9.036E+01	-8.459E+01	-7.629E+01	-6.619E+01	-5.847E+01	-4.012E+01	-1.396E+00
IV=	11	7.078E+01	1.708E+02	1.881E+02	1.466E+02	1.004E+02	7.027E+01	9.306E+01	1.716E+02	-1.268E+00
IV=	10	-5.122E+01	1.579E+01	-5.897E+01	-1.074E+02	-1.097E+02	-8.616E+01	-2.646E+01	7.419E+01	-1.202E+00
IV=	9	1.142E+02	1.346E+02	-5.626E+01	-1.409E+02	-1.548E+02	-1.385E+02	-8.498E+01	1.157E+01	-1.156E+00
IV=	8	7.248E+02	4.793E+02	-1.868E+00	-1.404E+02	-1.656E+02	-1.520E+02	-1.016E+02	-2.769E+01	-1.123E+00
IV=	7	7.014E+03	1.510E+03	1.611E+00	-1.632E+02	-1.825E+02	-1.587E+02	-9.777E+01	-4.553E+01	-1.097E+00
IV=	6	4.262E+03	1.602E+03	-4.231E+02	-1.093E+02	-1.878E+02	-1.596E+02	-9.219E+01	-4.807E+01	-1.077E+00
IV=	5	-9.220E+03	-1.014E+04	-4.385E+03	-8.295E+01	-1.698E+02	-1.791E+02	-1.006E+02	-4.804E+01	-1.059E+00
IV=	4	-5.909E+03	-4.917E+03	-3.427E+03	3.981E+02	-1.452E+01	-1.936E+02	-1.398E+02	-4.306E+01	-1.043E+00
IV=	3	-1.040E+04	-1.022E+04	-3.140E+03	2.804E+02	-5.034E+01	-1.767E+02	-1.236E+02	-1.029E+01	-1.025E+00
IV=	2	2.862E+03	1.392E+03	-1.170E+02	-1.635E+02	-1.830E+02	-1.727E+02	-8.974E+01	2.644E+01	-1.025E+00
IV=	1	1.917E+03	1.499E+03	3.812E+02	-3.511E+01	-1.422E+02	-1.535E+02	-5.968E+01	2.417E+02	-1.020E+00
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF U1										
IV=	23	-1.565E-02	-3.023E-02	-4.898E-02	-6.376E-02	-7.529E-02	-7.954E-02	-7.868E-02	-1.348E-03	
IV=	22	7.652E-03	1.424E-02	2.098E-02	2.261E-02	1.642E-02	1.069E-03	-2.045E-02	2.747E-02	
IV=	21	4.249E-03	7.610E-03	9.606E-03	6.630E-03	-5.067E-03	-2.217E-02	-4.020E-02	1.719E-02	
IV=	20	1.232E-04	-3.425E-04	-3.256E-03	-9.569E-03	-2.243E-02	-3.700E-02	-5.054E-02	1.276E-02	
IV=	19	2.545E-03	4.887E-03	7.646E-03	9.268E-03	9.541E-03	5.712E-03	-6.921E-03	4.283E-02	
IV=	18	8.523E-03	1.696E-02	3.070E-02	4.757E-02	7.591E-02	1.075E-01	1.255E-01	1.657E-01	
IV=	17	1.209E-02	2.327E-02	4.273E-02	6.849E-02	1.200E-01	1.920E-01	2.753E-01	4.095E-01	
IV=	16	7.129E-03	1.755E-02	4.005E-02	7.500E-02	1.522E-01	2.876E-01	5.346E-01	1.135E+00	
IV=	15	-1.748E+00	-2.797E+00	-3.731E+00	-4.309E+00	-4.883E+00	-5.331E+00	-5.856E+00	-4.870E+00	
IV=	14	-6.494E-01	-1.161E+00	-1.760E+00	-2.200E+00	-2.644E+00	-2.953E+00	-3.110E+00	-5.167E-08	
IV=	13	-3.732E-01	-8.013E-01	-1.418E+00	-1.989E+00	-2.532E+00	-2.828E+00	-2.967E+00	-8.210E-17	
IV=	12	1.104E-01	-2.449E-01	-1.121E+00	-1.933E+00	-2.797E+00	-3.300E+00	-3.453E+00	6.106E-15	
IV=	11	1.155E+01	1.930E+01	2.567E+01	2.866E+01	2.899E+01	2.691E+01	2.245E+01	1.802E-07	
IV=	10	1.722E+01	2.647E+01	3.092E+01	3.097E+01	2.830E+01	2.422E+01	1.765E+01	8.436E-08	
IV=	9	2.265E+01	3.195E+01	3.566E+01	3.104E+01	2.625E+01	2.152E+01	1.368E+01	5.155E-08	
IV=	8	2.910E+01	3.858E+01	3.583E+01	3.024E+01	2.418E+01	1.812E+01	8.669E+00	2.478E-08	
IV=	7	3.599E+01	4.560E+01	3.393E+01	2.553E+01	1.924E+01	1.182E+01	9.852E+01	7.365E-09	
IV=	6	2.989E+01	3.416E+01	-2.468E+00	7.907E+00	9.509E+00	4.349E+00	-5.509E+00	3.057E-09	
IV=	5	1.717E+01	-1.239E+01	-3.006E+01	8.080E+00	1.222E+01	7.499E+00	-3.191E+00	2.332E-09	
IV=	4	8.867E+00	1.507E+01	-1.665E+01	2.084E+01	1.795E+01	1.105E+01	-8.260E+01	4.544E-10	
IV=	3	1.382E+01	-4.322E+01	-1.401E+01	2.182E+01	2.323E+01	1.793E+01	1.033E+01	1.829E-08	
IV=	2	3.376E+01	4.061E+01	2.141E+01	1.923E+01	1.937E+01	1.570E+01	6.876E+00	5.181E-08	
IV=	1	3.957E+01	5.602E+01	5.736E+01	5.453E+01	5.052E+01	4.507E+01	3.760E+01	4.538E-07	
IX=	1	2	3	4	5	6	7	8		
FIELD VALUES OF V1										
IV=	22	-4.724E-01	-4.561E-01	-4.213E-01	-3.622E-01	-2.861E-01	-2.037E-01	-1.366E-01	-8.669E-02	-7.149E-02
IV=	21	-3.413E-01	-3.320E-01	-3.134E-01	-2.802E-01	-2.394E-01	-2.009E-01	-1.727E-01	-1.481E-01	-1.576E-01
IV=	20	-2.331E-01	-2.304E-01	-2.238E-01	-2.159E-01	-2.046E-01	-1.994E-01	-1.938E-01	-1.779E-01	-2.012E-01
IV=	19	-1.576E-01	-1.590E-01	-1.627E-01	-1.715E-01	-1.860E-01	-2.049E-01	-2.163E-01	-2.083E-01	-2.453E-01
IV=	18	-7.602E-02	-7.962E-02	-8.981E-02	-1.113E-01	-1.464E-01	-1.955E-01	-2.610E-01	-3.136E-01	-4.191E-01
IV=	17	-4.667E-02	-5.064E-02	-6.054E-02	-8.043E-02	-1.142E-02	-1.720E-01	-2.577E-01	-3.808E-01	-6.273E-01
IV=	16	-1.573E-02	-2.188E-02	-2.924E-02	-4.251E-02	-6.524E-02	-1.112E-01	-1.998E-01	-3.876E-01	-1.130E+00
IV=	15	-3.974E-12	-4.258E-12	-7.524E-12	-9.687E-12	-2.015E-11	-4.127E-11	-1.065E-10	-5.904E-07	-2.483E+00
IV=	14	-2.432E+00	-1.647E+00	-8.476E+01	-2.047E+01	-6.624E+01	-5.424E+01	-5.130E+01	-8.622E+01	2.820E+01
IV=	13	-4.554E+00	-3.451E+00	-2.653E+00	-2.076E+00	-1.695E+00	-1.398E+00	-1.122E+00	-6.571E+01	4.583E+01
IV=	12	-5.498E+00	-4.416E+00	-3.610E+00	-3.013E+00	-2.440E+00	-1.967E+00	-1.584E+00	-8.156E+01	4.006E+01
IV=	11	1.356E+07	2.000E+07	3.750E+07	3.785E+07	4.181E+07	3.119E+07	2.047E+07	6.047E+08	3.164E+01
IV=	10	2.752E+01	3.049E+01	2.863E+01	2.471E+01	1.935E+01	1.480E+01	1.068E+01	5.617E+00	2.545E+01
IV=	9	3.756E+01	3.842E+01	3.389E+01	2.830E+01	2.168E+01	1.642E+01	1.191E+01	5.729E+00	2.158E+01
IV=	8	4.882E+01	4.297E+01	3.207E+01	2.427E+01	1.729E+01	1.313E+01	1.019E+01	3.928E+00	1.844E+01
IV=	7	5.834E+01	4.355E+01	2.494E+01	1.647E+01	1.131E+01	9.181E+00	7.618E+00	1.338E+00	1.567E+01
IV=	6	5.141E+01	2.946E+01	2.983E+00	4.181E+00	5.850E+00	6.152E+00	4.700E+00	-1.833E+02	1.322E+01
IV=	5	-6.619E+01	-6.821E+01	-4.502E+01	8.006E+00	9.459E+00	6.706E+00	3.189E+00	2.042E+00	1.121E+01
IV=	4	1.620E+01	1.830E+01	-6.775E+00	9.797E+00	1.016E+01	6.303E+00	1.895E+00	3.759E+00	8.993E+02
IV=	3	-1.820E+01	-1.002E+01	2.186E+01	-6.886E+00	-6.608E+00	-4.458E+00	-2.482E+00	5.144E+00	6.640E+02
IV=	2	7.699E+01	8.141E+01	5.209E+01	3.382E+00	-4.981E+00	-4.674E+00	-2.282E+00	3.218E+00	5.556E+02
IV=	1	-4.356E+01	-2.962E+01	-1.392E+01	-9.256E+00	-7.403E+00	-6.635E+00	-5.435E+00	2.827E+00	2.716E+02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										

IV= 23	-1.959E+00	-1.878E+00	-1.702E+00	-1.410E+00	-1.049E+00	-6.622E-01	-3.468E-01	-1.148E-01	-8.584E-09
IV= 22	-9.079E-01	-8.751E-01	-7.991E-01	-6.631E-01	-4.777E-01	-2.667E-01	-8.814E-02	3.860E-02	1.061E-01
IV= 21	-4.809E-01	-4.637E-01	-4.212E-01	-3.437E-01	-2.366E-01	-1.138E-01	-1.173E-02	5.729E-02	9.705E-02
IV= 20	-2.625E-01	-2.538E-01	-2.303E-01	-1.867E-01	-1.267E-01	-5.769E-02	-3.903E-04	3.791E-02	6.129E-02
IV= 19	-1.561E-01	-1.522E-01	-1.433E-01	-1.267E-01	-1.030E-01	-7.333E-02	-4.589E-02	-2.224E-02	-1.552E-02
IV= 18	-8.670E-02	-8.612E-02	-8.581E-02	-8.522E-02	-8.379E-02	-8.168E-02	-7.998E-02	-7.444E-02	-8.480E-02
IV= 17	-4.207E-02	-4.305E-02	-4.651E-02	-5.307E-02	-6.303E-02	-7.782E-02	-9.747E-02	-1.149E-01	-1.679E-01
IV= 16	4.598E-02	4.252E-02	3.541E-02	2.326E-02	1.625E-03	-3.148E-02	-8.158E-02	-1.419E-01	-2.580E-01
IV= 15	3.215E+00	2.878E+00	2.654E+00	2.332E+00	1.981E+00	1.434E+00	8.256E-01	1.661E-01	-9.482E-02
IV= 14	4.211E+00	4.588E+00	4.798E+00	4.659E+00	4.231E+00	3.355E+00	2.223E+00	9.485E-01	9.904E-01
IV= 13	6.234E+00	7.001E+00	7.431E+00	7.189E+00	6.448E+00	5.096E+00	3.587E+00	1.434E+00	1.020E+00
IV= 12	1.231E+01	1.296E+01	1.320E+01	1.246E+01	1.100E+01	8.578E+00	5.784E+00	2.515E+00	9.830E-01
IV= 11	-1.540E-07	-4.481E-07	-1.116E-06	-1.285E-06	-1.632E-06	-1.384E-06	-1.087E-06	-4.734E-07	9.495E-01
IV= 10	5.520E-07	2.126E-07	-1.023E-07	-2.687E-07	-3.700E-07	-3.329E-07	-3.196E-07	-2.304E-07	9.228E-01
IV= 9	9.456E-07	4.137E-07	2.314E-07	8.575E-08	8.986E-08	-2.021E-08	-1.646E-07	-1.518E-07	9.026E-01
IV= 8	1.896E-06	7.930E-07	3.659E-07	1.461E-07	1.043E-07	-5.289E-09	-1.288E-07	-7.710E-08	8.859E-01
IV= 7	3.689E-06	1.792E-06	7.949E-07	1.937E-07	5.701E-08	-4.830E-09	-9.734E-08	-2.727E-08	8.719E-01
IV= 6	3.095E-06	2.648E-06	9.751E-07	8.721E-08	-2.477E-08	-6.073E-08	-6.519E-08	-1.716E-08	8.600E-01
IV= 5	6.901E-02	6.578E-02	1.664E-02	6.787E-06	1.096E-07	-4.223E-08	-7.466E-08	-2.477E-08	8.505E-01
IV= 4	8.057E-02	7.903E-02	2.316E-02	1.244E-05	6.285E-07	1.794E-07	-4.847E-08	-4.398E-08	8.414E-01
IV= 3	6.065E-02	5.559E-02	1.538E-02	1.113E-02	-6.574E-08	-8.066E-08	-8.655E-08	-4.079E-08	8.329E-01
IV= 2	4.476E-06	3.827E-06	2.407E-06	4.328E-07	1.229E-07	-7.396E-08	-1.822E-07	-1.070E-07	8.244E-01
IV= 1	2.505E-06	6.850E-07	-1.069E-06	-1.428E-06	-1.688E-06	-1.573E-06	-1.412E-06	-6.668E-07	8.121E-01
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE									
IV= 23	5.582E-01	5.756E-01	6.066E-01	6.237E-01	5.944E-01	4.964E-01	3.717E-01	2.563E-01	2.249E-01
IV= 22	3.704E-01	3.717E-01	3.724E-01	3.647E-01	3.391E-01	2.872E-01	2.249E-01	1.650E-01	1.555E-01
IV= 21	2.032E-01	2.025E-01	2.001E-01	1.930E-01	1.786E-01	1.548E-01	1.278E-01	1.012E-01	1.048E-01
IV= 20	1.015E-01	1.013E-01	1.007E-01	9.919E-02	9.608E-02	8.991E-02	8.110E-02	7.065E-02	7.992E-02
IV= 19	4.882E-02	4.935E-02	5.086E-02	5.378E-02	5.761E-02	6.101E-02	6.182E-02	5.951E-02	7.418E-02
IV= 18	3.696E-02	3.688E-02	3.835E-02	4.285E-02	5.107E-02	6.430E-02	8.139E-02	1.038E-01	1.444E-01
IV= 17	2.510E-02	3.194E-02	3.174E-02	3.593E-02	4.582E-02	6.706E-02	1.085E-01	2.098E-01	4.420E-01
IV= 16	3.142E-05	2.883E-05	3.039E-05	5.184E-05	1.496E-04	4.899E-04	1.520E-03	5.380E-03	5.947E-01
IV= 15	8.449E-02	8.486E-02	1.090E-01	1.311E-01	1.500E-01	1.662E-01	1.868E-01	1.697E-01	1.657E-00
IV= 14	3.029E-01	4.576E-01	4.526E-01	3.239E-01	1.956E-01	9.498E-02	4.483E-02	1.026E-02	8.050E-03
IV= 13	4.478E-01	6.716E-01	5.862E-01	4.397E-01	2.810E-01	1.424E-01	6.132E-02	1.711E-02	8.745E-03
IV= 12	6.941E-01	7.622E-01	7.905E-01	7.197E-01	5.874E-01	3.980E-01	2.264E-01	4.651E-02	7.899E-03
IV= 11	1.111E+00	1.668E+00	2.733E+00	3.559E+00	3.808E+00	3.528E+00	2.775E+00	4.528E-01	7.167E-03
IV= 10	5.963E+00	7.186E+00	7.272E+00	7.169E+00	5.716E+00	4.213E+00	2.657E+00	3.805E-01	6.664E-03
IV= 9	9.993E+00	1.008E+01	9.149E+00	7.468E+00	5.314E+00	3.608E+00	2.072E+00	2.588E-01	6.317E-03
IV= 8	1.511E+01	1.245E+01	9.286E+00	6.552E+00	4.262E+00	2.684E+00	1.295E+00	9.926E-02	6.044E-03
IV= 7	1.731E+01	1.238E+01	7.630E+00	4.451E+00	2.695E+00	1.48CE+00	4.360E-01	4.646E-03	5.823E-03
IV= 6	4.275E+00	6.128E+00	3.027E+00	2.585E-01	7.099E-01	4.884E-01	1.012E-01	3.268E-02	5.645E-03
IV= 5	2.294E+01	3.257E+01	1.288E+02	1.022E+00	1.018E+00	7.347E-01	7.305E-02	6.099E-02	5.501E-03
IV= 4	2.422E+01	2.666E+01	3.125E+01	4.494E-02	1.839E+00	1.074E+00	1.595E-01	1.168E-01	5.371E-03
IV= 3	2.008E+01	2.255E+01	1.955E+01	1.150E-01	2.549E+00	2.127E+00	1.046E+00	1.768E-01	5.258E-03
IV= 2	6.202E+00	8.723E+00	5.823E+00	2.026E+00	1.979E+00	1.661E+00	7.480E-01	9.189E-02	5.149E-03
IV= 1	1.011E+01	1.082E+01	1.289E+01	1.238E+01	1.098E+01	9.216E+00	7.036E+00	1.113E+00	5.007E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP									
IV= 23	1.369E-01	1.422E-01	1.515E-01	1.543E-01	1.385E-01	1.012E-01	6.255E-02	3.384E-02	2.542E-02
IV= 22	6.620E-02	6.631E-02	6.628E-02	6.348E-02	5.549E-02	4.145E-02	2.720E-02	1.592E-02	1.326E-02
IV= 21	2.745E-02	2.726E-02	2.663E-02	2.484E-02	2.142E-02	1.642E-02	1.159E-02	7.700E-03	7.507E-03
IV= 20	1.022E-02	1.013E-02	9.894E-03	9.362E-03	8.471E-03	7.159E-03	5.746E-03	4.500E-03	5.085E-03
IV= 19	3.566E-03	3.573E-03	3.623E-03	3.722E-03	3.837E-03	3.876E-03	3.749E-03	3.522E-03	4.698E-03
IV= 18	2.135E-03	2.098E-03	2.174E-03	2.466E-03	3.011E-03	3.897E-03	5.137E-03	7.214E-03	1.381E-02
IV= 17	2.187E-03	1.802E-03	1.695E-03	1.945E-03	2.658E-03	4.468E-03	9.115E-03	3.175E-02	1.325E-01
IV= 16	2.510E-07	2.207E-07	2.388E-07	5.320E-07	2.609E-06	1.546E-05	8.447E-05	5.624E-04	4.305E-01
IV= 15	6.083E-02	6.123E-02	8.907E-02	1.175E-01	1.439E-01	1.679E-01	1.999E-01	1.732E-01	3.200E+00
IV= 14	2.659E-01	4.063E-01	4.012E-01	2.850E-01	1.690E-01	8.088E-02	3.614E-02	1.427E-03	1.041E-03
IV= 13	4.117E-01	6.352E-01	5.086E-01	3.579E-01	2.120E-01	9.874E-02	3.593E-02	3.075E-03	1.179E-03
IV= 12	7.184E-01	8.284E-01	7.532E-01	5.594E-01	3.120E-01	1.339E-01	1.312E-02	1.012E-03	
IV= 11	2.534E+00	4.665E+00	9.780E+00	1.453E+01	1.609E+01	1.435E+01	1.000E+01	5.792E-01	8.747E-04
IV= 10	4.084E+01	5.430E+01	6.054E+01	5.410E+01	3.852E+01	2.438E+01	1.221E+01	4.919E-01	7.862E-04
IV= 9	8.904E+01	9.024E+01	7.800E+01	5.752E+01	3.453E+01	1.932E+01	8.407E+00	2.759E-01	7.238E-04
IV= 8	1.655E+02	1.238E+02	7.976E+01	4.727E+01	2.480E+01	1.239E+01	4.152E+00	6.555E-02	6.774E-04
IV= 7	2.030E+02	1.227E+02	5.941E+01	2.647E+01	1.247E+01	5.086E+00	8.115E-01	6.638E-04	6.406E-04
IV= 6	2.491E+01	4.276E+01	1.484E+01	3.704E-01	1.686E+00	9.622E-01	9.072E-02	1.238E-02	6.114E-04

IV=	5	1.330E+04	1.670E+04	3.121E+04	2.911E+00	2.897E+00	1.775E+00	5.565E-02	3.157E-02	5.881E-04
IV=	4	1.434E+04	1.585E+04	8.568E+03	2.686E-02	7.030E+00	3.136E+00	1.795E-01	8.362E-02	5.674E-04
IV=	3	1.069E+04	1.146E+04	4.147E+03	1.099E-01	1.147E+01	8.745E+00	3.017E+00	1.558E-01	5.496E-04
IV=	2	4.353E+01	7.262E+01	3.961E+01	8.127E+00	7.845E+00	6.032E+00	1.824E+00	5.839E-02	5.526E-04
IV=	1	6.694E+01	7.406E+01	9.638E+01	9.072E+01	7.571E+01	5.823E+01	3.884E+01	2.168E+00	5.107E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF HI										
IV=	23	3.100E+05	3.090E+05	3.087E+05	3.072E+05	3.055E+05	3.035E+05	3.017E+05	3.001E+05	2.996E+05
IV=	22	3.049E+05	3.048E+05	3.047E+05	3.043E+05	3.035E+05	3.023E+05	3.010E+05	2.997E+05	2.992E+05
IV=	21	3.022E+05	3.022E+05	3.021E+05	3.018E+05	3.010E+05	2.998E+05	2.987E+05	2.978E+05	2.977E+05
IV=	20	2.992E+05	2.992E+05	2.990E+05	2.987E+05	2.982E+05	2.976E+05	2.971E+05	2.968E+05	2.968E+05
IV=	19	2.972E+05	2.972E+05	2.971E+05	2.969E+05	2.967E+05	2.966E+05	2.964E+05	2.963E+05	2.964E+05
IV=	18	2.966E+05	2.966E+05	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05	2.963E+05
IV=	17	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	16	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	15	2.962E+05								
IV=	14	2.963E+05	2.963E+05	2.962E+05						
IV=	13	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	12	2.963E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IV=	11	2.963E+05	2.964E+05	2.964E+05	2.964E+05	2.964E+05	2.965E+05	2.967E+05	2.969E+05	2.962E+05
IV=	10	2.966E+05	2.965E+05	2.963E+05	2.963E+05	2.964E+05	2.966E+05	2.970E+05	2.972E+05	2.962E+05
IV=	9	2.985E+05	2.976E+05	2.967E+05	2.964E+05	2.965E+05	2.969E+05	2.974E+05	2.975E+05	2.962E+05
IV=	8	3.073E+05	3.020E+05	2.979E+05	2.969E+05	2.968E+05	2.973E+05	2.980E+05	2.975E+05	2.962E+05
IV=	7	3.444E+05	3.222E+05	3.016E+05	2.977E+05	2.972E+05	2.981E+05	2.990E+05	2.968E+05	2.962E+05
IV=	6	4.924E+05	4.338E+05	3.107E+05	2.986E+05	2.981E+05	3.001E+05	3.003E+05	2.978E+05	2.962E+05
IV=	5	1.243E+06	1.056E+06	3.978E+05	3.130E+05	3.016E+05	3.028E+05	3.030E+05	2.996E+05	2.962E+05
IV=	4	1.846E+06	1.869E+06	5.226E+05	3.369E+05	3.118E+05	3.076E+05	3.073E+05	3.021E+05	2.962E+05
IV=	3	8.994E+05	7.780E+05	3.923E+05	3.162E+05	3.060E+05	3.053E+05	3.059E+05	3.053E+05	2.962E+05
IV=	2	4.870E+05	4.277E+05	3.271E+05	3.049E+05	3.020E+05	3.024E+05	3.029E+05	3.055E+05	2.962E+05
IV=	1	3.622E+05	3.458E+05	3.252E+05	3.171E+05	3.139E+05	3.126E+05	3.117E+05	3.120E+05	2.965E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IV=	23	2.048E-01	2.096E-01	2.186E-01	2.270E-01	2.297E-01	2.192E-01	1.988E-01	1.747E-01	1.791E-01
IV=	22	1.870E-01	1.875E-01	1.884E-01	1.886E-01	1.865E-01	1.791E-01	1.673E-01	1.538E-01	1.641E-01
IV=	21	1.354E-01	1.354E-01	1.354E-01	1.350E-01	1.341E-01	1.314E-01	1.268E-01	1.197E-01	1.318E-01
IV=	20	9.064E-02	9.109E-02	9.225E-02	9.458E-02	9.804E-02	1.016E-01	1.030E-01	9.982E-02	1.130E-01
IV=	19	6.019E-02	6.136E-02	6.427E-02	6.992E-02	7.784E-02	8.644E-02	9.174E-02	9.050E-02	1.054E-01
IV=	18	5.759E-02	5.836E-02	6.088E-02	6.700E-02	7.796E-02	9.549E-02	1.161E-01	1.344E-01	1.360E-01
IV=	17	5.070E-02	5.094E-02	5.347E-02	5.971E-02	7.109E-02	9.060E-02	1.162E-01	1.248E-01	1.327E-01
IV=	16	3.540E-04	3.391E-04	3.481E-04	4.547E-04	7.725E-04	1.398E-03	2.462E-03	4.632E-03	7.373E-02
IV=	15	1.056E-02	1.059E-02	1.200E-02	1.316E-02	1.407E-02	1.483E-02	1.570E-02	1.497E-02	7.721E-02
IV=	14	3.104E-02	4.658E-02	4.595E-02	5.294E-02	2.058E-02	1.004E-02	5.004E-03	6.637E-03	5.672E-03
IV=	13	4.382E-02	6.390E-02	6.080E-02	4.862E-02	3.351E-02	1.862E-02	9.417E-03	8.573E-03	5.838E-03
IV=	12	6.025E-02	6.329E-02	6.441E-02	6.145E-02	5.552E-02	4.570E-02	3.447E-02	1.484E-02	5.549E-03
IV=	11	4.382E-02	5.370E-02	6.873E-02	7.843E-02	8.113E-02	7.809E-02	6.926E-02	3.186E-02	5.286E-03
IV=	10	7.785E-02	8.560E-02	8.876E-02	8.550E-02	7.634E-02	6.554E-02	5.205E-02	2.649E-02	5.096E-03
IV=	9	1.009E-01	1.014E-01	9.658E-02	8.726E-02	7.361E-02	6.066E-02	4.596E-02	2.184E-02	4.962E-03
IV=	8	1.261E-01	1.127E-01	9.731E-02	8.173E-02	6.592E-02	5.231E-02	3.633E-02	1.353E-02	4.854E-03
IV=	7	1.329E-01	1.123E-01	8.820E-02	6.737E-02	5.242E-02	3.888E-02	2.108E-02	2.927E-03	4.764E-03
IV=	6	6.602E-02	7.905E-02	5.555E-02	1.623E-02	2.690E-02	2.232E-02	1.016E-02	7.762E-03	4.691E-03
IV=	5	3.560E-03	5.718E-03	4.782E-02	3.228E-02	3.222E-02	2.737E-02	8.630E-03	1.060E-02	4.630E-03
IV=	4	5.681E-03	4.017E-03	1.026E-02	6.769E-03	4.330E-02	5.309E-02	1.275E-02	1.467E-02	4.575E-03
IV=	3	3.395E-03	3.995E-03	8.294E-03	1.083E-02	5.098E-02	4.657E-02	3.266E-02	1.805E-02	4.527E-03
IV=	2	7.952E-02	9.431E-02	7.706E-02	4.545E-02	4.492E-02	4.115E-02	2.762E-02	1.302E-02	4.480E-03
IV=	1	1.375E-01	1.422E-01	1.553E-01	1.522E-01	1.433E-01	1.315E-01	1.147E-01	5.146E-02	4.418E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1										
IV=	23	3.087E+02	3.083E+02	3.075E+02	3.060E+02	3.042E+02	3.023E+02	3.005E+02	2.989E+02	2.984E+02
IV=	22	3.037E+02	3.036E+02	3.035E+02	3.030E+02	3.023E+02	3.011E+02	2.998E+02	2.985E+02	2.981E+02
IV=	21	3.010E+02	3.010E+02	3.009E+02	3.006E+02	2.998E+02	2.987E+02	2.975E+02	2.966E+02	2.965E+02
IV=	20	2.980E+02	2.980E+02	2.978E+02	2.975E+02	2.970E+02	2.964E+02	2.959E+02	2.956E+02	2.956E+02
IV=	19	2.961E+02	2.960E+02	2.959E+02	2.957E+02	2.956E+02	2.954E+02	2.953E+02	2.952E+02	2.952E+02
IV=	18	2.954E+02	2.954E+02	2.953E+02	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02
IV=	17	2.953E+02	2.953E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.951E+02
IV=	16	2.951E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	15	2.950E+02								
IV=	14	2.951E+02	2.951E+02	2.950E+02						
IV=	13	2.952E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02

IV= 12	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV= 11	2.951E+02	2.952E+02	2.952E+02	2.952E+02	2.952E+02	2.953E+02	2.955E+02	2.957E+02	2.950E+02
IV= 10	2.954E+02	2.953E+02	2.952E+02	2.951E+02	2.952E+02	2.954E+02	2.958E+02	2.961E+02	2.950E+02
IV= 9	2.974E+02	2.964E+02	2.955E+02	2.953E+02	2.953E+02	2.957E+02	2.962E+02	2.963E+02	2.950E+02
IV= 8	3.061E+02	3.008E+02	2.967E+02	2.957E+02	2.956E+02	2.961E+02	2.968E+02	2.963E+02	2.950E+02
IV= 7	3.430E+02	3.209E+02	3.004E+02	2.965E+02	2.960E+02	2.969E+02	2.978E+02	2.956E+02	2.950E+02
IV= 6	4.904E+02	4.320E+02	3.095E+02	2.975E+02	2.969E+02	2.989E+02	2.991E+02	2.966E+02	2.950E+02
IV= 5	1.238E+03	1.052E+03	3.960E+02	3.118E+02	3.004E+02	3.016E+02	3.017E+02	2.984E+02	2.950E+02
IV= 4	1.839E+03	1.861E+03	5.205E+02	3.355E+02	3.106E+02	3.064E+02	3.061E+02	3.009E+02	2.950E+02
IV= 3	8.958E+02	7.749E+02	3.907E+02	3.149E+02	3.048E+02	3.041E+02	3.047E+02	3.041E+02	2.950E+02
IV= 2	4.850E+02	4.260E+02	3.258E+02	3.037E+02	3.007E+02	3.012E+02	3.017E+02	3.043E+02	2.950E+02
IV= 1	3.608E+02	3.445E+02	3.239E+02	3.158E+02	3.126E+02	3.114E+02	3.105E+02	3.107E+02	2.953E+02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF RHO1									
IV= 23	1.148E+00	1.149E+00	1.152E+00	1.158E+00	1.164E+00	1.172E+00	1.179E+00	1.185E+00	1.187E+00
IV= 22	1.167E+00	1.167E+00	1.167E+00	1.169E+00	1.172E+00	1.176E+00	1.182E+00	1.187E+00	1.189E+00
IV= 21	1.177E+00	1.177E+00	1.177E+00	1.179E+00	1.182E+00	1.186E+00	1.191E+00	1.194E+00	1.195E+00
IV= 20	1.189E+00	1.189E+00	1.189E+00	1.191E+00	1.193E+00	1.195E+00	1.197E+00	1.199E+00	1.199E+00
IV= 19	1.197E+00	1.197E+00	1.197E+00	1.198E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00
IV= 18	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.200E+00
IV= 17	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 16	1.201E+00	1.201E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 15	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 14	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 13	1.200E+00	1.201E+00	1.201E+00						
IV= 12	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IV= 11	1.201E+00	1.202E+00	1.202E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IV= 10	1.199E+00	1.200E+00	1.200E+00	1.199E+00	1.199E+00	1.198E+00	1.197E+00	1.198E+00	1.201E+00
IV= 9	1.193E+00	1.197E+00	1.198E+00	1.198E+00	1.198E+00	1.196E+00	1.195E+00	1.196E+00	1.201E+00
IV= 8	1.166E+00	1.183E+00	1.194E+00	1.196E+00	1.197E+00	1.195E+00	1.192E+00	1.195E+00	1.201E+00
IV= 7	1.064E+00	1.121E+00	1.179E+00	1.193E+00	1.195E+00	1.191E+00	1.189E+00	1.198E+00	1.201E+00
IV= 6	7.528E-01	8.330E-01	1.140E+00	1.190E+00	1.191E+00	1.183E+00	1.183E+00	1.194E+00	1.201E+00
IV= 5	2.600E-01	3.030E-01	8.554E-01	1.135E+00	1.177E+00	1.173E+00	1.173E+00	1.187E+00	1.201E+00
IV= 4	1.815E-01	1.811E-01	6.576E-01	1.060E+00	1.140E+00	1.154E+00	1.156E+00	1.177E+00	1.201E+00
IV= 3	3.549E-01	4.111E-01	8.787E-01	1.128E+00	1.162E+00	1.163E+00	1.161E+00	1.165E+00	1.201E+00
IV= 2	7.511E-01	8.431E-01	1.086E+00	1.165E+00	1.176E+00	1.174E+00	1.173E+00	1.165E+00	1.201E+00
IV= 1	1.000E+00	1.044E+00	1.098E+00	1.121E+00	1.152E+00	1.136E+00	1.141E+00	1.143E+00	1.200E+00
IX=	1	2	3	4	5	6	7	8	9

TIME STP= 1 SWEEP NO= 70 ZSLAB NO= 27 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 27, ISWEEP= 70, ISTEP= 1									
FIELD VALUES OF P1									
IV= 23	-8.593E-01	-8.844E-01	-8.971E-01	-9.139E-01	-9.285E-01	-9.404E-01	-9.451E-01	-9.098E-01	-9.399E-01
IV= 22	-8.787E-01	-8.768E-01	-8.828E-01	-8.927E-01	-9.037E-01	-9.136E-01	-9.189E-01	-8.948E-01	-9.131E-01
IV= 21	-9.112E-01	-9.085E-01	-9.094E-01	-9.107E-01	-9.119E-01	-9.122E-01	-9.113E-01	-8.892E-01	-9.032E-01
IV= 20	-9.180E-01	-9.175E-01	-9.175E-01	-9.176E-01	-9.176E-01	-9.171E-01	-9.163E-01	-8.973E-01	-9.092E-01
IV= 19	-9.211E-01	-9.207E-01	-9.210E-01	-9.217E-01	-9.229E-01	-9.254E-01	-9.293E-01	-9.202E-01	-9.329E-01
IV= 18	-9.190E-01	-9.178E-01	-9.182E-01	-9.193E-01	-9.221E-01	-9.299E-01	-9.476E-01	-9.732E-01	-1.031E+00
IV= 17	-9.174E-01	-9.161E-01	-9.168E-01	-9.180E-01	-9.217E-01	-9.330E-01	-9.636E-01	-1.049E+00	-1.241E+00
IV= 16	-9.145E-01	-9.145E-01	-9.145E-01	-9.153E-01	-9.181E-01	-9.303E-01	-9.744E-01	-1.172E+00	-2.283E+00
IV= 15	-2.416E+01	-2.717E+01	-3.159E+01	-3.534E+01	-3.945E+01	-4.315E+01	-4.758E+01	-5.256E+01	-5.080E+00
IV= 14	-3.049E+01	-3.232E+01	-3.518E+01	-3.818E+01	-4.138E+01	-4.436E+01	-4.674E+01	-5.615E+01	-2.114E+00
IV= 13	-5.399E+01	-5.426E+01	-5.459E+01	-5.442E+01	-5.426E+01	-5.390E+01	-5.386E+01	-4.000E+01	-1.519E+00
IV= 12	-1.194E+02	-1.195E+02	-1.165E+02	-1.081E+02	-9.691E+01	-8.386E+01	-7.472E+01	-4.913E+01	-1.278E+00
IV= 11	-2.965E+02	-2.985E+02	-2.798E+02	-2.483E+02	-2.041E+02	-1.556E+02	-1.218E+02	-6.690E+01	-1.174E+00
IV= 10	-4.166E+02	-4.635E+02	-4.133E+02	-3.426E+02	-2.550E+02	-1.848E+02	-1.450E+02	-7.739E+01	-1.124E+00
IV= 9	-5.906E+02	-7.318E+02	-6.143E+02	-4.594E+02	-3.167E+02	-2.127E+02	-1.645E+02	-8.555E+01	-1.093E+00
IV= 8	-7.533E+02	-1.073E+03	-8.872E+02	-6.365E+02	-4.032E+02	-2.509E+02	-1.858E+02	-9.727E+01	-1.069E+00
IV= 7	-2.911E+02	-9.880E+02	-9.960E+02	-7.740E+02	-5.061E+02	-3.034E+02	-2.110E+02	-1.007E+02	-1.049E+00
IV= 6	-4.066E+03	-3.789E+03	-2.216E+03	-6.645E+02	-5.805E+02	-3.458E+02	-2.347E+02	-1.068E+02	-1.034E+00
IV= 5	-3.251E+03	-1.720E+03	7.222E+03	-1.728E+03	-6.155E+02	-3.834E+02	-2.549E+02	-1.123E+02	-1.020E+00
IV= 4	-1.439E+04	-1.284E+04	1.031E+03	-1.904E+03	-6.778E+02	-4.114E+02	-2.703E+02	1.169E+02	-1.008E+00
IV= 3	4.768E+03	3.547E+03	5.999E+03	-1.674E+03	-7.094E+02	-4.082E+02	-2.717E+02	-1.184E+02	-1.001E+00
IV= 2	-2.026E+03	-2.509E+03	-1.942E+03	-1.092E+03	-7.076E+02	-3.894E+02	-2.689E+02	-1.196E+02	-9.934E-01
IV= 1	-1.441E+03	-1.517E+03	-1.520E+03	-9.598E+02	-5.697E+02	-3.447E+02	-2.594E+02	-1.187E+02	-9.892E-01

IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF U1									
IV= 25	-2.213E-02	-4.201E-02	-6.959E-02	-8.716E-02	-9.521E-02	-9.346E-02	-8.743E-02	-3.812E-03	
IV= 20	5.712E-03	1.053E-02	1.532E-02	1.619E-02	1.059E-02	-3.832E-03	-2.456E-02	2.707E-02	
IV= 21	5.372E-03	9.600E-03	1.221E-02	8.973E-03	-4.091E-01	-2.268E-02	-4.149E-02	1.717E-02	
IV= 20	1.550E-03	2.156E-03	-1.847E-04	-7.096E-03	-2.175E-02	-3.779E-02	-5.182E-02	1.224E-02	
IV= 19	2.156E-03	3.937E-03	5.288E-03	4.921E-03	2.145E-03	-3.980E-03	-1.687E-02	3.575E-02	
IV= 18	7.133E-03	1.413E-02	2.515E-02	3.822E-02	5.968E-02	8.269E-02	9.382E-02	1.354E-01	
IV= 17	1.026E-02	1.973E-02	3.569E-02	5.704E-02	9.673E-02	1.516E-01	2.149E-01	3.311E-01	
IV= 16	6.890E-03	1.662E-02	3.651E-02	6.625E-02	1.255E-01	2.276E-01	4.186E-01	9.246E-01	
IV= 15	-1.650E+00	-2.759E+00	-3.864E+00	-4.641E+00	-5.400E+00	-6.042E+00	-6.704E+00	-5.656E+00	
IV= 14	-7.020E-01	-1.283E+00	-1.966E+00	-2.447E+00	-2.906E+00	-3.215E+00	-3.583E+00	-1.286E-07	
IV= 13	-6.470E-01	-1.238E+00	-1.961E+00	-2.505E+00	-2.981E+00	-3.220E+00	-3.536E+00	-2.138E-15	
IV= 12	-4.812E-01	-1.387E+00	-2.675E+00	-3.621E+00	-4.352E+00	-4.521E+00	-4.361E+00	1.474E-23	
IV= 11	-1.441E+00	-3.042E+00	-5.555E+00	-7.058E+00	-7.584E+00	-7.060E+00	-6.191E+00	1.314E-22	
IV= 10	-3.217E+00	-5.741E+00	-8.598E+00	-9.915E+00	-9.856E+00	-8.571E+00	-7.179E+00	2.675E-23	
IV= 9	-5.022E+00	-8.538E+00	-1.209E+01	-1.341E+01	-1.224E+01	-9.853E+00	-7.907E+00	1.152E-23	
IV= 8	-6.523E+00	-1.069E+01	-1.466E+01	-1.611E+01	-1.483E+01	-1.146E+01	-8.665E+00	3.551E-24	
IV= 7	-7.422E+00	-1.155E+01	-1.518E+01	-1.727E+01	-1.668E+01	-1.289E+01	-9.516E+00	1.292E-26	
IV= 6	-7.995E+00	-1.103E+01	-1.133E+01	-1.623E+01	-1.775E+01	-1.394E+01	-1.018E+01	9.694E-27	
IV= 5	-7.874E+01	5.932E-01	1.245E+01	-1.490E+01	-1.854E+01	-1.491E+01	-1.074E+01	1.292E-26	
IV= 4	-6.650E+01	-6.896E+00	6.993E+00	-1.755E+01	-2.008E+01	-1.567E+01	-1.116E+01	1.616E-26	
IV= 3	3.889E+00	5.682E+00	8.175E+00	-1.908E+01	-2.113E+01	-1.575E+01	-1.121E+01	6.462E-27	
IV= 2	-9.799E+00	-1.493E+01	-2.133E+01	-2.498E+01	-2.332E+01	-1.557E+01	-1.119E+01	5.904E-23	
IV= 1	-1.449E+01	-2.296E+01	-2.748E+01	-2.562E+01	-1.940E+01	-1.404E+01	-1.080E+01	5.337E-22	
IX#	1	2	3	4	5	6	7	8	
FIELD VALUES OF V1									
IV= 22	-5.022E-01	-4.848E-01	-4.477E-01	-3.841E-01	-3.013E-01	-2.103E-01	-1.364E-01	-8.290E-02	-6.600E-02
IV= 21	-3.302E-01	-3.195E-01	-2.948E-01	-2.538E-01	-2.043E-01	-1.592E-01	-1.086E-01	-1.061E-01	-1.125E-01
IV= 20	-2.001E-01	-1.955E-01	-1.846E-01	-1.689E-01	-1.537E-01	-1.457E-01	-1.407E-01	-1.293E-01	-1.487E-01
IV= 19	-1.142E-01	-1.147E-01	-1.163E-01	-1.218E-01	-1.331E-01	-1.496E-01	-1.605E-01	-1.554E-01	-1.871E-01
IV= 18	-4.011E-02	-4.319E-02	-5.192E-02	-7.058E-02	-1.009E-01	-1.465E-01	-1.978E-01	-2.400E-01	-3.276E-01
IV= 17	-1.722E-02	-2.070E-02	-2.920E-02	-4.640E-02	-7.557E-02	-1.248E-01	-1.963E-01	-2.973E-01	-5.005E-01
IV= 16	3.759E-03	-1.404E-03	-7.534E-03	-1.876E-02	-3.865E-02	-7.818E-02	-1.527E-01	-3.105E-01	-9.286E-01
IV= 15	-4.899E-12	-5.206E-12	-9.116E-12	-1.160E-11	-2.360E-11	-4.817E-11	-1.280E-10	-9.650E-07	-2.169E+00
IV= 14	-2.732E+00	-2.074E+00	-1.595E+00	-1.259E+00	-9.943E-01	-7.713E-01	-6.258E-01	-8.619E-01	1.123E+00
IV= 13	-6.031E+00	-5.117E+00	-4.363E+00	-3.678E+00	-3.114E+00	-2.498E+00	-1.797E+00	-8.797E+00	8.202E+00
IV= 12	-1.042E+01	-9.343E+00	-8.365E+00	-7.308E+00	-6.236E+00	-4.987E+00	-3.572E+00	-1.544E+00	5.734E+00
IV= 11	-1.847E+01	-1.787E+01	-1.655E+01	-1.458E+01	-1.236E+01	-9.603E+00	-6.583E+00	-2.620E+00	4.110E+00
IV= 10	-2.159E+01	-2.154E+01	-2.012E+01	-1.698E+01	-1.343E+01	-9.689E+00	-6.101E+00	-2.112E+00	3.181E+00
IV= 9	-2.401E+01	-2.404E+01	-2.221E+01	-1.847E+01	-1.400E+01	-9.362E+00	-5.484E+00	-1.734E+00	2.661E+00
IV= 8	-2.485E+01	-2.455E+01	-2.221E+01	-1.828E+01	-1.384E+01	-8.913E+00	-4.946E+00	-1.490E+00	2.262E+00
IV= 7	-2.391E+01	-2.281E+01	-1.948E+01	-1.582E+01	-1.260E+01	-8.198E+00	-4.348E+00	-1.291E+00	1.912E+00
IV= 6	-2.466E+01	-2.119E+01	-1.395E+01	-1.127E+01	-1.029E+01	-7.191E+00	-3.658E+00	-1.059E+00	1.619E+00
IV= 5	-1.037E+01	-5.599E+00	8.522E+00	-7.136E+00	-8.099E+00	-6.098E+00	-3.002E+00	-8.399E+00	1.375E+00
IV= 4	-1.455E+01	-1.294E+01	-4.947E+00	-5.736E+00	-6.439E+00	-4.665E+00	-2.132E+00	-5.657E+00	1.105E+00
IV= 3	2.761E+01	2.239E+01	4.336E+00	-7.522E+01	-3.956E+00	-2.689E+00	-1.051E+00	-2.570E+00	8.171E+00
IV= 2	6.968E+00	3.114E+00	-1.056E+01	-1.888E+00	-3.141E+00	-1.749E+00	-5.723E+00	-1.405E+01	6.844E+00
IV= 1	2.180E+01	1.832E+01	1.012E+01	2.279E+00	4.182E+01	7.357E+01	3.768E+01	6.878E+02	3.341E+02
IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IV= 23	-2.082E+00	-1.996E+00	-1.812E+00	-1.506E+00	-1.129E+00	-7.172E+01	-3.776E+01	-1.266E+01	-1.467E+00
IV= 22	-8.986E-01	-8.642E-01	-7.851E-01	-6.444E-01	-4.542E-01	-2.385E-01	-5.875E-02	6.477E-02	1.315E-01
IV= 21	-4.538E-01	-4.351E-01	-3.906E-01	-3.105E-01	-2.024E-01	-8.420E-02	9.957E-03	7.010E-02	1.082E-01
IV= 20	-2.531E-01	-2.229E-01	-1.985E-01	-1.552E-01	-9.839E-02	-3.717E-02	1.100E-02	4.129E-02	6.234E-02
IV= 19	-1.287E-01	-1.251E-01	-1.171E-01	-1.034E-01	-8.527E-02	-6.417E-02	-4.559E-02	-2.914E-02	-2.905E-02
IV= 18	-7.359E-02	-7.331E-02	-7.399E-02	-7.592E-02	-7.931E-02	-8.614E-02	-9.738E-02	-1.070E-01	-1.421E-01
IV= 17	-3.972E-02	-4.095E-02	-4.522E-02	-5.380E-02	-6.806E-02	-9.278E-02	-1.308E-01	-1.803E-01	-3.062E-01
IV= 16	2.770E-02	2.331E-02	1.406E-02	-2.051E-03	-2.846E-02	-7.155E-02	-1.496E-01	-2.748E-01	-6.701E-01
IV= 15	1.444E+00	1.095E+00	9.480E+01	7.900E+01	6.544E+01	4.637E+01	1.944E+01	-8.785E+02	-1.480E+01
IV= 14	2.405E+00	2.755E+00	2.966E+00	2.882E+00	2.548E+00	1.681E+00	1.136E+00	4.477E+01	8.565E+01
IV= 13	3.117E+00	4.005E+00	4.442E+00	4.321E+00	3.784E+00	2.765E+00	1.614E+00	5.998E+01	7.871E+01
IV= 12	3.937E+00	5.640E+00	6.116E+00	5.860E+00	4.998E+00	3.454E+00	1.867E+00	5.966E+01	8.055E+01
IV= 11	-8.769E-01	-1.699E-01	3.218E-01	3.122E-01	9.449E-02	-3.629E-01	-5.755E-01	-2.647E-01	8.188E-01
IV= 10	-1.007E+00	-1.354E+00	-2.152E+00	-2.991E+00	-3.118E+00	-2.680E+00	-1.905E+00	-6.534E+00	8.186E+00
IV= 9	5.780E+00	4.097E+00	9.008E-01	-2.681E+00	-4.969E+00	-4.571E+00	-2.879E+00	-8.564E+00	8.150E+00
IV= 8	2.438E+01	2.021E+01	1.188E+01	2.474E+00	-4.346E+00	-5.871E+00	-3.784E+00	-9.755E+00	8.105E+00
IV= 7	7.009E+01	6.046E+01	3.892E+01	1.543E+01	-1.050E+00	-6.244E+00	-4.383E+00	-1.093E+00	8.056E+01

IY= 6	1.708E+02	1.551E+02	1.075E+02	3.949E+01	4.679E+00	-6.019E+00	-4.881E+00	-1.206E+00	8.004E-01
IY= 5	4.623E+02	4.129E+02	2.757E+02	8.468E+01	1.124E+01	-5.613E+00	-5.344E+00	-1.309E+00	7.961E-01
IY= 4	5.109E+02	4.571E+02	3.102E+02	9.464E+01	1.249E+01	-6.053E+00	-5.701E+00	-1.372E+00	7.913E-01
IY= 3	4.447E+02	3.976E+02	2.635E+02	7.429E+01	7.193E+00	-7.323E+00	-5.806E+00	-1.383E+00	7.843E-01
IY= 2	1.341E+02	1.175E+02	7.567E+01	2.276E+01	-2.857E+00	-9.422E+00	-5.897E+00	-1.583E+00	7.789E-01
IY= 1	1.612E+01	-5.027E+00	-1.533E+01	-1.557E+01	-1.572E+01	-1.154E+01	-5.913E+00	-1.351E+00	7.682E-01
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE									
IY= 23	5.694E-01	5.914E-01	6.327E-01	6.661E-01	6.504E-01	5.524E-01	4.168E-01	2.880E-01	2.519E-01
IY= 22	3.850E-01	3.869E-01	3.887E-01	3.816E-01	3.547E-01	2.984E-01	2.309E-01	1.673E-01	1.581E-01
IY= 21	2.010E-01	2.001E-01	1.970E-01	1.883E-01	1.716E-01	1.459E-01	1.186E-01	9.303E-02	9.761E-02
IY= 20	9.142E-02	9.097E-02	8.979E-02	8.733E-02	8.350E-02	7.769E-02	7.010E-02	6.124E-02	7.087E-02
IY= 19	3.673E-02	3.722E-02	3.857E-02	4.125E-02	4.494E-02	4.854E-02	4.982E-02	4.813E-02	6.176E-02
IY= 18	2.468E-02	2.493E-02	2.630E-02	3.016E-02	3.703E-02	4.799E-02	6.182E-02	7.900E-02	1.125E-01
IY= 17	2.032E-02	2.024E-02	2.033E-02	2.366E-02	3.122E-02	4.710E-02	7.748E-02	1.491E-01	3.217E-01
IY= 16	1.351E-05	1.159E-05	1.476E-05	3.737E-05	1.196E-04	3.731E-04	1.136E-03	4.073E-03	4.610E-01
IY= 15	3.339E-02	4.117E-02	7.574E-02	1.146E-01	1.527E-01	1.918E-01	2.305E-01	2.197E-01	9.400E-01
IY= 14	4.819E-01	6.350E-01	5.510E-01	3.567E-01	2.127E-01	1.031E-01	4.636E-02	6.941E-03	1.162E-02
IY= 13	1.059E+00	1.363E+00	1.136E+00	7.443E-01	4.195E-01	1.737E-01	5.754E-02	1.248E-02	7.966E-03
IY= 12	2.566E+00	2.920E+00	2.610E+00	1.987E+00	1.362E+00	7.197E-01	2.669E-01	2.933E-02	6.559E-03
IY= 11	6.121E+01	4.993E+01	1.836E+01	2.427E+00	1.323E+00	6.259E-01	2.096E-01	3.477E-02	5.973E-03
IY= 10	1.284E+03	1.058E+03	6.650E+02	2.511E+02	4.942E+00	5.894E-01	1.590E-01	2.604E-02	5.651E-03
IY= 9	4.609E+03	3.984E+03	2.783E+03	1.350E+03	3.0469E+02	9.390E+00	1.324E+00	2.145E-02	5.444E-03
IY= 8	1.217E+04	1.063E+04	7.509E+03	3.888E+03	1.135E+03	1.222E+02	1.376E+01	1.882E-02	5.280E-03
IY= 7	2.959E+04	2.584E+04	1.778E+04	8.964E+03	2.727E+03	3.861E+02	3.301E+01	1.695E-02	5.142E-03
IY= 6	6.015E+04	5.373E+04	3.789E+04	1.761E+04	5.105E+03	7.409E+02	4.813E+01	1.563E-02	5.024E-03
IY= 5	7.500E+04	7.244E+04	5.547E+04	3.005E+04	7.866E+03	1.147E+03	5.789E+01	1.478E-02	4.929E-03
IY= 4	6.975E+04	6.840E+04	5.525E+04	3.174E+04	8.311E+03	1.190E+03	5.824E+01	1.386E-02	4.835E-03
IY= 3	6.944E+04	6.577E+04	4.976E+04	2.660E+04	6.743E+03	8.814E+02	4.817E+01	1.321E-02	4.734E-03
IY= 2	5.112E+04	4.586E+04	3.122E+04	1.346E+04	3.517E+03	3.265E+02	2.662E+01	1.297E-02	4.655E-03
IY= 1	1.996E+00	1.624E+00	3.532E+00	3.816E+00	3.090E+00	1.770E+00	8.617E-01	8.792E-02	4.531E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP									
IY= 23	1.479E-01	1.545E-01	1.669E-01	1.743E-01	1.624E-01	1.222E-01	7.628E-02	4.127E-02	3.075E-02
IY= 22	7.203E-02	7.254E-02	7.286E-02	7.017E-02	6.147E-02	4.550E-02	2.928E-02	1.678E-02	1.396E-02
IY= 21	2.833E-02	2.808E-02	2.728E-02	2.509E-02	2.109E-02	1.566E-02	1.073E-02	7.013E-03	6.942E-03
IY= 20	9.397E-03	9.257E-03	8.907E-03	8.209E-03	7.202E-03	5.964E-03	4.765E-03	3.761E-03	4.392E-03
IY= 19	2.581E-03	2.581E-03	2.605E-03	2.674E-03	2.778E-03	2.857E-03	2.820E-03	2.690E-03	3.737E-03
IY= 18	1.258E-03	1.239E-03	1.303E-03	1.522E-03	1.941E-03	2.645E-03	3.628E-03	5.199E-03	1.009E-02
IY= 17	1.174E-03	9.567E-04	9.100E-04	1.084E-03	1.559E-03	2.755E-03	5.826E-03	1.945E-02	8.204E-02
IY= 16	7.077E-08	5.622E-08	8.083E-08	3.256E-07	1.864E-06	1.027E-05	5.455E-05	3.704E-04	4.287E-01
IY= 15	1.511E-02	2.069E-02	5.162E-02	9.608E-02	1.477E-01	2.081E-01	2.777E-01	2.551E-01	2.145E+00
IY= 14	6.156E-01	7.844E-01	6.444E-01	3.958E-01	2.272E-01	1.062E-01	4.531E-02	7.942E-04	1.805E-03
IY= 13	1.722E+00	2.115E+00	1.635E+00	9.834E-01	5.028E-01	1.821E-01	4.756E-02	1.916E-03	1.025E-03
IY= 12	7.234E+00	7.792E+00	6.606E+00	4.637E+00	2.861E+00	1.285E+00	3.801E-01	6.899E-02	7.658E-04
IY= 11	1.995E+02	1.410E+02	4.311E+01	5.696E+00	2.899E+00	1.167E+00	3.105E-01	8.906E-03	6.655E-04
IY= 10	2.475E+04	1.846E+04	9.028E+03	1.777E+03	1.851E+01	1.286E+00	2.407E-01	5.772E-03	6.124E-04
IY= 9	1.577E+05	1.297E+05	7.968E+04	2.890E+04	2.820E+03	2.664E+01	1.556E+00	4.314E-03	5.790E-04
IY= 8	5.805E+05	4.914E+05	3.190E+05	1.324E+05	2.251E+04	6.762E+02	1.961E+01	3.545E-03	5.531E-04
IY= 7	1.752E+06	1.511E+06	9.896E+05	4.197E+05	8.329E+04	3.270E+03	5.551E+01	3.032E-03	5.315E-04
IY= 6	2.500E+06	2.500E+06	2.500E+06	1.025E+06	2.056E+05	1.086E+04	9.466E+01	2.685E-03	5.133E-04
IY= 5	2.500E+06	2.500E+06	2.500E+06	2.005E+06	5.767E+05	2.297E+04	1.286E+02	2.468E-03	4.988E-04
IY= 4	2.500E+06	2.500E+06	2.500E+06	2.178E+06	4.073E+05	2.331E+04	1.285E+02	2.241E-03	4.847E-04
IY= 3	2.500E+06	2.500E+06	2.500E+06	1.804E+06	3.135E+05	1.363E+04	1.009E+02	2.086E-03	4.695E-04
IY= 2	2.500E+06	2.500E+06	2.259E+06	7.827E+05	1.222E+05	3.354E+03	5.492E+01	2.029E-03	4.579E-04
IY= 1	3.790E+00	2.782E+00	8.922E+00	1.003E+01	7.300E+00	3.164E+00	1.075E+00	3.542E-02	4.397E-04
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1									
IY= 23	3.114E+05	3.110E+05	3.101E+05	3.085E+05	3.066E+05	3.044E+05	3.025E+05	3.007E+05	3.002E+05
IY= 22	3.062E+05	3.062E+05	3.059E+05	3.054E+05	3.044E+05	3.030E+05	3.014E+05	2.999E+05	2.995E+05
IY= 21	3.030E+05	3.029E+05	3.027E+05	3.022E+05	3.012E+05	2.998E+05	2.986E+05	2.977E+05	2.976E+05
IY= 20	2.993E+05	2.992E+05	2.990E+05	2.986E+05	2.980E+05	2.974E+05	2.969E+05	2.966E+05	2.966E+05
IY= 19	2.971E+05	2.970E+05	2.968E+05	2.967E+05	2.966E+05	2.964E+05	2.963E+05	2.963E+05	2.963E+05
IY= 18	2.965E+05	2.964E+05	2.964E+05	2.963E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IY= 17	2.964E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IY= 16	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05
IY= 15	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05
IY= 14	2.963E+05	2.962E+05	2.962E+05						

IV=	13	2.963E+05	2.963E+05	2.962E+05						
IV=	12	2.962E+05	2.963E+05	2.962E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05	2.962E+05
IV=	11	2.962E+05	2.962E+05	2.961E+05	2.960E+05	2.960E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05
IV=	10	2.979E+05	2.977E+05	2.973E+05	2.967E+05	2.960E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05
IV=	9	3.085E+05	3.075E+05	3.056E+05	3.025E+05	2.985E+05	2.962E+05	2.961E+05	2.962E+05	2.962E+05
IV=	8	3.451E+05	3.406E+05	3.316E+05	3.196E+05	3.064E+05	2.979E+05	2.963E+05	2.962E+05	2.962E+05
IV=	7	4.495E+05	4.322E+05	3.952E+05	3.567E+05	3.224E+05	3.016E+05	2.967E+05	2.962E+05	2.962E+05
IV=	6	6.511E+05	6.131E+05	5.200E+05	4.185E+05	3.452E+05	3.067E+05	2.970E+05	2.962E+05	2.962E+05
IV=	5	9.087E+05	8.426E+05	6.657E+05	5.016E+05	3.705E+05	3.123E+05	2.973E+05	2.962E+05	2.962E+05
IV=	4	1.031E+06	9.515E+05	7.291E+05	5.304E+05	3.796E+05	3.140E+05	2.973E+05	2.962E+05	2.962E+05
IV=	3	8.713E+05	8.180E+05	6.627E+05	4.955E+05	3.672E+05	3.103E+05	2.971E+05	2.962E+05	2.962E+05
IV=	2	6.378E+05	5.930E+05	5.090E+05	4.100E+05	3.398E+05	3.031E+05	2.965E+05	2.962E+05	2.962E+05
IV=	1	3.959E+05	3.836E+05	3.542E+05	3.298E+05	3.110E+05	2.982E+05	2.961E+05	2.962E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IV=	23	1.974E-01	2.037E-01	2.159E-01	2.291E-01	2.544E-01	2.248E-01	2.050E-01	1.809E-01	1.857E-01
IV=	22	1.852E-01	1.857E-01	1.866E-01	1.868E-01	1.842E-01	1.761E-01	1.638E-01	1.502E-01	1.611E-01
IV=	21	1.284E-01	1.283E-01	1.280E-01	1.272E-01	1.256E-01	1.224E-01	1.179E-01	1.111E-01	1.235E-01
IV=	20	8.007E-02	8.045E-02	8.146E-02	8.362E-02	8.714E-02	9.109E-02	9.283E-02	8.975E-02	1.029E-01
IV=	19	4.705E-02	4.831E-02	5.140E-02	5.726E-02	6.545E-02	7.421E-02	7.922E-02	7.750E-02	9.187E-02
IV=	18	4.431E-02	4.514E-02	4.777E-02	5.379E-02	6.358E-02	7.857E-02	9.480E-02	1.080E-01	1.149E-01
IV=	17	3.822E-02	3.853E-02	4.089E-02	4.646E-02	5.627E-02	7.248E-02	9.273E-02	1.029E-01	1.135E-01
IV=	16	2.321E-02	2.150E-02	2.426E-02	3.860E-02	6.906E-02	1.220E-02	2.128E-02	4.030E-02	4.462E-02
IV=	15	6.644E-03	7.273E-03	1.000E-02	1.230E-02	1.420E-02	1.592E-02	1.752E-02	1.703E-02	3.707E-02
IV=	14	3.395E-02	4.626E-02	4.241E-02	2.894E-02	1.792E-02	9.010E-03	4.268E-03	5.459E-03	6.730E-03
IV=	13	5.855E-02	7.703E-02	7.103E-02	5.070E-02	3.149E-02	1.492E-02	6.265E-03	7.322E-03	5.572E-03
IV=	12	8.193E-02	9.851E-02	9.281E-02	7.666E-02	5.835E-02	3.627E-02	1.687E-02	1.122E-02	5.056E-03
IV=	11	1.690E+00	1.591E+00	7.036E-01	9.310E-02	5.433E-02	3.021E-02	1.274E-02	1.222E-02	4.825E-03
IV=	10	5.996E+00	5.462E+00	4.408E+00	3.194E+00	1.187E-01	2.431E-02	9.450E-03	1.057E-02	4.693E-03
IV=	9	1.211E+01	1.101E+01	8.748E+00	5.675E+00	2.966E+00	2.979E-01	1.015E-01	9.597E-03	4.606E-03
IV=	8	2.295E+01	2.070E+01	1.600E+01	1.028E+01	5.152E+00	1.989E+00	8.686E-01	8.989E-03	4.537E-03
IV=	7	4.496E+01	3.977E+01	2.874E+01	1.723E+01	8.038E+00	4.101E+00	1.767E+00	8.533E-03	4.477E-03
IV=	6	1.302E+02	1.039E+02	5.168E+01	2.725E+01	1.141E+01	4.550E+00	2.202E+00	8.193E-03	4.425E-03
IV=	5	2.025E+02	1.888E+02	1.108E+02	4.054E+01	1.478E+01	5.153E+00	2.345E+00	7.967E-03	4.583E-03
IV=	4	1.751E+02	1.685E+02	1.099E+02	4.164E+01	1.526E+01	5.469E+00	2.375E+00	7.715E-03	4.341E-03
IV=	3	1.736E+02	1.557E+02	8.915E+01	3.530E+01	1.305E+01	5.131E+00	2.069E+00	7.532E-03	4.296E-03
IV=	2	9.409E+01	7.573E+01	5.883E+01	2.084E+01	9.108E+00	2.860E+00	1.161E+00	7.464E-03	4.260E-03
IV=	1	9.460E-02	8.523E-02	1.258E-01	1.308E-01	1.177E-01	8.908E-02	6.216E-02	1.964E-02	4.203E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1										
IV=	23	3.100E+02	3.098E+02	3.089E+02	3.075E+02	3.054E+02	3.032E+02	3.015E+02	2.995E+02	2.990E+02
IV=	22	3.050E+02	3.049E+02	3.047E+02	3.041E+02	3.032E+02	3.018E+02	3.002E+02	2.987E+02	2.983E+02
IV=	21	3.018E+02	3.017E+02	3.015E+02	3.010E+02	3.000E+02	2.986E+02	2.974E+02	2.965E+02	2.964E+02
IV=	20	2.981E+02	2.980E+02	2.978E+02	2.974E+02	2.968E+02	2.962E+02	2.957E+02	2.955E+02	2.955E+02
IV=	19	2.955E+02	2.958E+02	2.957E+02	2.955E+02	2.954E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02
IV=	18	2.952E+02	2.952E+02	2.952E+02	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.951E+02
IV=	17	2.953E+02	2.952E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	16	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	15	2.950E+02								
IV=	14	2.951E+02	2.950E+02							
IV=	13	2.951E+02	2.951E+02	2.950E+02						
IV=	12	2.951E+02	2.951E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	11	2.950E+02								
IV=	10	2.967E+02	2.965E+02	2.962E+02	2.955E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	9	3.073E+02	3.062E+02	3.044E+02	3.015E+02	2.973E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02
IV=	8	3.437E+02	3.392E+02	3.302E+02	3.183E+02	3.052E+02	2.967E+02	2.951E+02	2.950E+02	2.950E+02
IV=	7	4.477E+02	4.305E+02	3.937E+02	3.553E+02	3.211E+02	3.004E+02	2.955E+02	2.950E+02	2.950E+02
IV=	6	6.485E+02	6.107E+02	5.179E+02	4.168E+02	3.439E+02	3.054E+02	2.958E+02	2.950E+02	2.950E+02
IV=	5	9.051E+02	8.392E+02	6.631E+02	4.996E+02	3.690E+02	3.111E+02	2.961E+02	2.950E+02	2.950E+02
IV=	4	1.027E+03	9.477E+02	7.262E+02	5.282E+02	3.781E+02	3.127E+02	2.961E+02	2.950E+02	2.950E+02
IV=	3	8.679E+02	8.147E+02	6.600E+02	4.935E+02	3.658E+02	3.091E+02	2.959E+02	2.950E+02	2.950E+02
IV=	2	6.253E+02	5.906E+02	5.070E+02	4.084E+02	3.385E+02	3.018E+02	2.953E+02	2.950E+02	2.950E+02
IV=	1	3.943E+02	3.821E+02	3.528E+02	3.285E+02	3.097E+02	2.971E+02	2.950E+02	2.950E+02	2.950E+02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1										
IV=	23	1.142E+00	1.144E+00	1.147E+00	1.151E+00	1.160E+00	1.168E+00	1.176E+00	1.183E+00	1.185E+00
IV=	22	1.162E+00	1.162E+00	1.163E+00	1.165E+00	1.169E+00	1.174E+00	1.180E+00	1.186E+00	1.188E+00
IV=	21	1.174E+00	1.174E+00	1.175E+00	1.177E+00	1.181E+00	1.186E+00	1.191E+00	1.195E+00	1.195E+00

IV= 20	1.188E+00	1.189E+00	1.190E+00	1.191E+00	1.194E+00	1.196E+00	1.198E+00	1.199E+00	1.199E+00
IV= 19	1.197E+00	1.198E+00	1.198E+00	1.198E+00	1.199E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 18	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 17	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IV= 16	1.201E+00								
IV= 15	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 14	1.200E+00	1.200E+00	1.201E+00	1.201E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00	1.201E+00
IV= 13	1.200E+00	1.201E+00							
IV= 12	1.199E+00	1.199E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.200E+00	1.200E+00	1.201E+00
IV= 11	1.197E+00	1.197E+00	1.198E+00	1.198E+00	1.199E+00	1.199E+00	1.200E+00	1.200E+00	1.201E+00
IV= 10	1.189E+00	1.189E+00	1.191E+00	1.191E+00	1.195E+00	1.198E+00	1.199E+00	1.200E+00	1.201E+00
IV= 9	1.146E+00	1.148E+00	1.157E+00	1.171E+00	1.188E+00	1.198E+00	1.199E+00	1.200E+00	1.201E+00
IV= 8	1.023E+00	1.033E+00	1.063E+00	1.106E+00	1.156E+00	1.191E+00	1.198E+00	1.200E+00	1.201E+00
IV= 7	7.890E-01	8.150E-01	8.911E-01	9.895E-01	1.098E+00	1.176E+00	1.196E+00	1.200E+00	1.201E+00
IV= 6	5.244E-01	5.585E-01	6.691E-01	8.444E-01	1.024E+00	1.156E+00	1.195E+00	1.200E+00	1.201E+00
IV= 5	3.789E-01	4.150E-01	5.724E-01	6.970E-01	9.542E-01	1.135E+00	1.194E+00	1.200E+00	1.201E+00
IV= 4	2.959E-01	3.265E-01	4.967E-01	6.581E-01	9.307E-01	1.128E+00	1.193E+00	1.200E+00	1.201E+00
IV= 3	4.274E-01	4.501E-01	5.685E-01	7.060E-01	9.618E-01	1.142E+00	1.194E+00	1.200E+00	1.201E+00
IV= 2	5.553E-01	5.850E-01	6.854E-01	8.581E-01	1.039E+00	1.169E+00	1.196E+00	1.200E+00	1.201E+00
IV= 1	8.858E-01	9.134E-01	9.910E-01	1.068E+00	1.137E+00	1.189E+00	1.198E+00	1.200E+00	1.201E+00
IX=	1	2	3	4	5	6	7	8	9

 TIME STP= 1 SWEEP NO= 70 ZSLAB NO= 29 ITERN NO= 1

FLOW FIELD AT ITHYD= 1. ID= 29. ISWEEP= 70. ISTEP= 1

FIELD VALUES OF PI

IV= 23	-8.400E-01	-8.746E-01	-8.931E-01	-9.210E-01	-9.491E-01	-9.724E-01	-9.844E-01	-9.694E-01	-9.855E-01
IV= 22	-9.197E-01	-9.204E-01	-9.267E-01	-9.366E-01	-9.469E-01	-9.562E-01	-9.606E-01	-9.349E-01	-9.543E-01
IV= 21	-9.252E-01	-9.221E-01	-9.236E-01	-9.254E-01	-9.267E-01	-9.262E-01	-9.249E-01	-9.039E-01	-9.173E-01
IV= 20	-9.205E-01	-9.194E-01	-9.198E-01	-9.200E-01	-9.200E-01	-9.194E-01	-9.186E-01	-9.014E-01	-9.120E-01
IV= 19	-9.200E-01	-9.198E-01	-9.201E-01	-9.205E-01	-9.211E-01	-9.222E-01	-9.239E-01	-9.135E-01	-9.227E-01
IV= 18	-9.187E-01	-9.181E-01	-9.185E-01	-9.192E-01	-9.208E-01	-9.246E-01	-9.321E-01	-9.368E-01	-9.558E-01
IV= 17	-9.177E-01	-9.171E-01	-9.176E-01	-9.186E-01	-9.209E-01	-9.264E-01	-9.384E-01	-9.644E-01	-1.034E+00
IV= 16	-9.161E-01	-9.162E-01	-9.167E-01	-9.177E-01	-9.201E-01	-9.267E-01	-9.466E-01	-1.021E+00	-1.387E+00
IV= 15	-2.314E+01	-2.608E+01	-3.054E+01	-3.467E+01	-3.951E+01	-4.435E+01	-4.982E+01	-3.067E+01	-4.214E+00
IV= 14	-2.700E+01	-2.859E+01	-3.128E+01	-3.496E+01	-3.952E+01	-4.452E+01	-4.854E+01	-3.794E+01	-4.365E+00
IV= 13	-4.271E+01	-4.240E+01	-4.254E+01	-4.421E+01	-4.747E+01	-5.171E+01	-5.508E+01	-4.189E+01	-4.108E+00
IV= 12	-8.085E+01	-7.951E+01	-7.741E+01	-7.596E+01	-7.442E+01	-7.295E+01	-7.237E+01	-5.065E+01	-1.047E+00
IV= 11	-1.450E+02	-1.616E+02	-1.603E+02	-1.476E+02	-1.288E+02	-1.085E+02	-9.887E+01	-6.253E+01	-1.028E+00
IV= 10	-1.478E+02	-1.935E+02	-1.891E+02	-1.758E+02	-1.528E+02	-1.246E+02	-1.126E+02	-6.898E+01	-1.017E+00
IV= 9	-4.793E+01	-1.351E+02	-1.546E+02	-1.741E+02	-1.725E+02	-1.457E+02	-1.264E+02	-7.435E+01	-1.006E+00
IV= 8	1.639E+02	4.526E+01	-2.664E+01	-1.200E+02	-1.734E+02	-1.649E+02	-1.425E+02	-7.969E+01	-9.957E+01
IV= 7	3.861E+02	2.654E+02	1.464E+02	-1.441E+01	-1.489E+02	-1.751E+02	-1.561E+02	-8.407E+01	-9.860E+01
IV= 6	3.669E+02	2.631E+02	2.075E+02	6.582E+01	-1.160E+02	-1.786E+02	-1.646E+02	-8.756E+01	-9.778E+01
IV= 5	-2.184E+02	-2.401E+02	-9.630E+01	-1.500E+01	-1.150E+02	-1.836E+02	-1.727E+02	-9.064E+01	-9.691E+01
IV= 4	1.233E+02	-1.510E+02	-3.234E+02	-1.433E+02	-1.517E+02	-1.995E+02	-1.820E+02	-9.343E+01	-9.608E+01
IV= 3	-5.403E+02	-5.801E+02	-9.530E+02	-1.994E+02	-2.091E+02	-2.173E+02	-1.875E+02	-9.458E+01	-9.566E+01
IV= 2	-1.868E+02	-2.524E+02	-2.568E+02	-2.377E+02	-2.600E+02	-2.361E+02	-1.915E+02	-9.538E+01	-9.509E+01
IV= 1	-2.723E+02	-2.924E+02	-3.067E+02	-2.852E+02	-2.663E+02	-2.247E+02	-1.870E+02	-9.518E+01	-9.486E+01
IX=	1	2	3	4	5	6	7	8	9

FIELD VALUES OF U1

IV= 23	-3.104E-02	-5.944E-02	-9.447E-02	-1.166E-01	-1.244E-01	-1.156E-01	-1.014E-01	-7.482E-03
IV= 22	2.835E-03	5.166E-03	7.593E-03	8.051E-03	4.272E-03	-8.207E-03	-2.788E-02	2.762E-02
IV= 21	7.041E-03	1.268E-02	1.673E-02	1.388E-02	-9.976E-05	-2.025E-02	-4.031E-02	1.840E-02
IV= 20	3.993E-03	6.466E-07	5.327E-03	-1.832E-03	-1.798E-02	-3.561E-02	-5.086E-02	1.270E-02
IV= 19	1.662E-03	2.638E-03	2.051E-03	-7.838E-04	-7.132E-03	-1.637E-02	-3.005E-02	2.570E-02
IV= 18	4.930E-03	9.472E-03	1.597E-02	2.284E-02	3.274E-02	4.131E-02	3.890E-02	7.833E-02
IV= 17	7.576E-03	1.423E-02	2.458E-02	3.600E-02	5.723E-02	8.207E-02	1.033E-01	1.661E-01
IV= 16	8.385E-03	1.705E-02	2.903E-02	4.368E-02	7.096E-02	1.146E-01	1.849E-01	3.939E-01
IV= 15	-1.468E+00	-2.614E+00	-3.766E+00	-4.586E+00	-5.403E+00	-6.120E+00	-6.846E+00	-5.737E+00
IV= 14	-4.716E-01	-8.590E-01	-1.234E+00	-1.555E+00	-2.082E+00	-2.751E+00	-3.304E+00	5.467E-08
IV= 13	-7.457E-01	-1.110E+00	-1.368E+00	-1.571E+00	-1.966E+00	-2.604E+00	-3.269E+00	7.919E-08
IV= 12	-1.117E+00	-1.687E+00	-2.152E+00	-2.559E+00	-2.980E+00	-3.468E+00	-4.027E+00	5.605E-08
IV= 11	-1.379E+00	-2.407E+00	-3.511E+00	-4.305E+00	-4.737E+00	-4.824E+00	-5.090E+00	1.190E-14
IV= 10	-1.682E+00	-3.130E+00	-4.924E+00	-6.100E+00	-6.599E+00	-6.017E+00	-5.801E+00	1.082E-21
IV= 9	-1.739E+00	-3.215E+00	-5.101E+00	-6.604E+00	-7.880E+00	-7.307E+00	-6.426E+00	1.292E-26

IV=	8	-1.434E+00	-2.666E+00	-4.295E+00	-5.958E+00	-7.971E+00	-8.108E+00	-7.110E+00	1.292E-26		
IV=	7	-8.171E-01	-1.598E+00	-2.573E+00	-4.423E+00	-7.401E+00	-8.392E+00	-7.639E+00	1.292E-26		
IV=	6	-2.448E-01	-6.879E-01	-3.565E-01	-2.671E+00	-6.726E+00	-8.495E+00	-7.886E+00	9.694E-27		
IV=	5	-3.661E+00	-4.910E+00	-1.069E+00	-2.538E+00	-6.640E+00	-8.644E+00	-8.105E+00	1.292E-26		
IV=	4	-5.544E+00	-7.883E+00	-2.442E+00	-4.680E+00	-7.821E+00	-9.101E+00	-8.381E+00	1.616E-26		
IV=	3	-1.903E+00	-3.835E+00	-1.618E+00	-7.084E+00	-9.220E+00	-9.380E+00	-8.484E+00	6.462E-27		
IV=	2	-6.031E+00	-8.150E+00	-1.098E+01	-1.115E+01	-1.091E+01	-9.527E+00	-8.394E+00	2.262E-26		
IV=	1	-2.122E+00	-8.303E+00	-1.003E+01	-8.418E+00	-8.193E+00	-8.363E+00	-8.206E+00	2.262E-26		
IX=	1	2	3	4	5	6	7	8			
FIELD VALUES OF VI											
IV=	22	-5.537E-01	-5.154E-01	-4.767E-01	-4.093E-01	-3.193E-01	-2.173E-01	-1.348E-01	-7.648E-02	-5.721E-02	
IV=	21	-3.237E-01	-3.090E-01	-2.763E-01	-2.240E-01	-1.635E-01	-1.106E-01	-7.871E-02	-6.068E-02	-6.414E-02	
IV=	20	-1.737E-01	-1.658E-01	-1.482E-01	-1.233E-01	-1.001E-01	-8.930E-02	-8.655E-02	-8.109E-02	-9.652E-02	
IV=	19	-7.709E-02	-7.567E-02	-7.323E-02	-7.547E-02	-8.030E-02	-9.417E-02	-1.046E-01	-1.029E-01	-1.273E-01	
IV=	18	-1.305E-02	-1.502E-02	-2.094E-02	-3.441E-02	-5.690E-02	-9.022E-02	-1.247E-01	-1.478E-01	-2.012E-01	
IV=	17	3.000E-03	6.545E-04	-5.445E-03	-1.824E-02	-3.965E-02	-7.321E-02	-1.163E-01	-1.689E-01	-2.665E-01	
IV=	16	1.678E-02	1.522E-02	8.479E-03	-5.843E-04	-1.602E-02	-4.150E-02	-8.024E-02	-1.527E-01	-3.764E-01	
IV=	15	5.506E-11	5.506E-11	8.002E-11	8.019E-11	8.527E-11	-4.372E-11	-4.992E-10	-6.683E-07	-7.093E-01	
IV=	14	-2.308E+00	-1.595E+00	-1.045E+00	-7.410E-01	-5.627E-01	-4.863E-01	-4.397E-01	-7.279E-01	1.789E+00	
IV=	13	-5.599E+00	-4.943E+00	-4.344E+00	-3.779E+00	-3.290E+00	-2.669E+00	-1.861E+00	-8.642E-01	8.518E-01	
IV=	12	-9.745E+00	-9.203E+00	-8.591E+00	-7.789E+00	-6.837E+00	-5.446E+00	-3.693E+00	-1.494E+00	5.814E-01	
IV=	11	-1.444E+01	-1.454E+01	-1.400E+01	-1.287E+01	-1.087E+01	-8.079E+00	-5.229E+00	-1.975E+00	4.119E-01	
IV=	10	-1.446E+01	-1.485E+01	-1.458E+01	-1.315E+01	-1.058E+01	-7.597E+00	-4.471E+00	-1.440E+00	3.234E-01	
IV=	9	-1.198E+01	-1.218E+01	-1.196E+01	-1.113E+01	-9.247E+00	-6.245E+00	-3.709E+00	-1.185E+00	2.754E-01	
IV=	8	-8.897E+00	-8.925E+00	-8.787E+00	-8.530E+00	-7.664E+00	-5.310E+00	-3.030E+00	-1.019E+00	2.380E-01	
IV=	7	-6.221E+00	-5.890E+00	-5.402E+00	-5.681E+00	-5.981E+00	-4.450E+00	-2.555E+00	-8.306E-01	2.051E-01	
IV=	6	-5.553E+00	-4.674E+00	-3.083E+00	-3.622E+00	-4.816E+00	-3.842E+00	-2.198E+00	-6.362E-01	1.752E-01	
IV=	5	-4.707E+00	-4.302E+00	-3.261E+00	-4.059E+00	-4.939E+00	-3.717E+00	-1.939E+00	-5.085E-01	1.504E-01	
IV=	4	-3.620E+00	-4.347E+00	-5.477E+00	-6.722E+00	-6.104E+00	-3.909E+00	-1.668E+00	-3.896E-01	1.220E-01	
IV=	3	8.164E+00	6.669E+00	2.592E+00	-6.857E+00	-7.108E+00	-3.807E+00	-1.240E+00	-2.329E-01	9.084E-02	
IV=	2	4.747E+00	3.667E+00	-1.948E+00	-8.766E+00	-7.072E+00	-3.367E+00	-9.705E-01	-1.500E-01	7.644E-02	
IV=	1	3.446E+00	-7.749E-01	-8.036E+00	-7.970E+00	-4.455E+00	-9.213E-01	-7.086E-02	-2.319E-03	3.755E-02	
IX=	1	2	3	4	5	6	7	8	9		
FIELD VALUES OF WI											
IV=	23	-2.194E+00	-2.106E+00	-1.918E+00	-1.606E+00	-1.220E+00	-7.852E-01	-4.174E-01	-1.424E-01	-1.848E-08	
IV=	22	-8.734E-01	-8.376E-01	-7.563E-01	-6.130E-01	-4.204E-01	-2.010E-01	-2.052E-02	9.846E-02	1.679E-01	
IV=	21	-4.240E-01	-4.025E-01	-3.554E-01	-2.713E-01	-1.615E-01	-4.878E-02	3.534E-02	8.523E-02	1.222E-01	
IV=	20	-2.045E-01	-1.929E-01	-1.657E-01	-1.212E-01	-6.733E-02	-1.428E-02	2.463E-02	4.714E-02	6.656E-02	
IV=	19	-1.041E-01	-1.001E-01	-9.201E-02	-8.010E-02	-6.585E-02	-5.030E-02	-3.719E-02	-2.467E-02	-2.925E-02	
IV=	18	-6.406E-02	-6.344E-02	-6.402E-02	-6.623E-02	-7.025E-02	-7.805E-02	-9.007E-02	-9.833E-02	-1.433E-01	
IV=	17	-4.185E-02	-4.344E-02	-4.584E-02	-5.335E-02	-6.635E-02	-8.925E-02	-1.243E-01	-1.629E-01	-2.795E-01	
IV=	16	-1.595E-02	-1.505E-02	-1.855E-02	-2.324E-02	-3.229E-02	-4.919E-02	-8.369E-02	-1.542E-01	-2.661E-01	-6.633E-01
IV=	15	2.072E-09	6.910E-10	1.130E-10	-2.534E-10	-2.048E-10	-3.865E-10	-1.719E-09	-1.015E-06	-1.392E-00	
IV=	14	1.909E-08	1.448E-08	1.967E-08	1.756E-08	1.992E-08	1.437E-08	8.787E-09	1.716E-09	-1.167E-01	
IV=	13	3.354E-08	3.907E-08	6.192E-08	5.502E-08	5.609E-08	3.235E-08	1.483E-08	2.917E-09	3.913E-01	
IV=	12	3.641E-08	7.023E-08	1.230E-07	1.078E-07	1.008E-07	4.769E-08	1.559E-08	2.702E-09	5.822E-01	
IV=	11	1.914E+00	1.505E+00	1.325E+00	8.315E-01	2.754E-01	-7.855E-02	2.244E-01	3.515E-01	6.768E-01	
IV=	10	9.840E+00	8.558E+00	6.257E+00	2.965E+00	-5.122E-01	-1.795E+00	-1.074E+00	-3.332E-01	7.119E-01	
IV=	9	2.239E+01	1.956E+01	1.471E+01	7.816E+00	6.260E-01	-3.734E+00	-2.839E+00	-8.801E-01	7.261E-01	
IV=	8	4.353E+01	3.892E+01	2.951E+01	1.678E+01	4.012E+00	-4.139E+00	-4.411E+00	-1.323E+00	7.332E-01	
IV=	7	8.072E+01	7.223E+01	5.373E+01	3.077E+01	9.440E+00	-3.386E+00	-5.093E+00	-1.671E+00	7.364E-01	
IV=	6	1.644E+02	1.469E+02	9.832E+01	4.797E+01	1.511E+01	-2.366E+00	-5.555E+00	-1.895E+00	7.371E-01	
IV=	5	4.319E+02	3.928E+02	2.753E+02	7.577E+01	1.910E+01	-1.825E+00	-5.990E+00	-2.053E+00	7.372E-01	
IV=	4	4.374E+02	4.105E+02	3.515E+02	9.928E+01	2.020E+01	-2.704E+00	-6.427E+00	-2.152E+00	7.357E-01	
IV=	3	4.163E+02	3.817E+02	2.714E+02	7.117E+01	1.392E+01	-4.981E+00	-6.723E+00	-2.147E+00	7.303E-01	
IV=	2	1.545E+02	1.317E+02	7.352E+01	2.950E+01	3.646E+00	-8.561E+00	-7.245E+00	-2.089E+00	7.273E-01	
IV=	1	1.142E+01	8.916E+00	6.289E+00	-4.629E+00	-1.096E+01	-1.167E+01	-7.187E+00	-2.012E+00	7.185E-01	
IX=	1	2	3	4	5	6	7	8	9		
FIELD VALUES OF KE											
IV=	23	5.787E-01	6.053E-01	6.577E-01	7.124E-01	7.220E-01	6.331E-01	4.848E-01	3.385E-01	2.945E-01	
IV=	22	4.006E-01	4.033E-01	4.065E-01	4.005E-01	3.729E-01	3.122E-01	2.386E-01	1.706E-01	1.614E-01	
IV=	21	1.967E-01	1.955E-01	1.916E-01	1.808E-01	1.612E-01	1.341E-01	1.078E-01	8.418E-02	8.975E-02	
IV=	20	8.090E-02	8.006E-02	7.798E-02	7.419E-02	6.970E-02	6.485E-02	5.891E-02	5.173E-02	6.144E-02	
IV=	19	2.565E-02	2.608E-02	2.718E-02	2.937E-02	3.263E-02	3.605E-02	3.735E-02	3.577E-02	4.732E-02	
IV=	18	1.458E-02	1.488E-02	1.606E-02	1.892E-02	2.374E-02	3.076E-02	3.853E-02	4.527E-02	6.725E-02	
IV=	17	1.099E-02	1.070E-02	1.129E-02	1.355E-02	1.808E-02	2.642E-02	3.961E-02	6.216E-02	1.168E-01	
IV=	16	6.118E-06	8.969E-06	1.708E-05	5.390E-05	7.309E-05	1.768E-04	4.621E-04	1.356E-03	2.357E-01	
IV=	15	2.006E-02	3.067E-02	6.535E-02	1.058E-01	1.463E-01	1.898E-01	2.353E-01	2.230E-01	1.747E-01	

IY=	14	9.473E-02	6.856E-02	5.277E-02	4.533E-02	4.513E-02	5.272E-02	6.502E-02	1.397E-02	1.266E-02
IY=	13	3.167E-01	2.748E-01	2.375E-01	1.982E-01	1.631E-01	1.260E-01	9.735E-02	1.863E-02	5.048E-03
IY=	12	7.319E-01	7.081E-01	6.560E-01	5.674E-01	4.447E-01	3.006E-01	1.898E-01	3.253E-02	4.493E-03
IY=	11	2.170E+02	1.766E+02	1.089E+02	2.439E+01	6.676E-01	4.379E-01	1.915E-01	1.973E-02	4.545E-03
IY=	10	1.606E+03	1.400E+03	9.997E+02	5.098E+02	1.211E+02	3.563E+00	1.853E+01	1.248E+02	4.567E+03
IY=	9	3.988E+03	3.564E+03	2.650E+03	1.528E+03	5.346E+02	6.435E+01	4.496E+00	1.343E+02	4.544E+03
IY=	8	7.411E+03	6.591E+03	4.932E+03	2.998E+03	1.186E+03	2.074E+02	2.073E+01	1.717E+02	4.499E+03
IY=	7	1.106E+04	9.723E+03	7.024E+03	4.560E+03	1.974E+03	4.047E+02	4.697E+01	2.146E+02	4.443E+03
IY=	6	7.573E+03	6.571E+03	4.537E+03	5.019E+03	2.562E+03	5.791E+02	6.565E+01	2.486E+02	4.383E+03
IY=	5	8.796E+03	7.603E+03	2.725E+03	2.845E+03	2.787E+03	6.814E+02	7.769E+01	2.770E+02	4.329E+03
IY=	4	3.106E+04	2.731E+04	7.855E+03	3.187E+03	2.954E+03	6.715E+02	7.719E+01	2.946E+02	4.263E+03
IY=	3	1.343E+04	1.176E+04	4.317E+03	2.866E+03	2.491E+03	5.267E+02	5.983E+01	2.902E+02	4.178E+03
IY=	2	3.948E+03	3.538E+03	2.528E+03	3.847E+03	1.742E+03	3.061E+02	2.360E+01	2.743E+02	4.122E+03
IY=	1	6.313E-01	5.084E-01	5.821E-01	5.077E-01	8.610E-01	9.269E-01	5.679E-01	6.974E-02	4.020E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IY=	23	1.611E-01	1.690E-01	1.847E-01	1.992E-01	1.956E-01	1.559E-01	9.894E-02	5.402E-02	3.976E-02
IY=	22	7.926E-02	7.999E-02	8.075E-02	7.829E-02	6.890E-02	5.076E-02	3.203E-02	1.791E-02	1.483E-02
IY=	21	2.916E-02	2.883E-02	2.775E-02	2.496E-02	2.022E-02	1.437E-02	9.584E-03	6.197E-03	6.268E-03
IY=	20	8.566E-03	8.346E-03	7.805E-03	6.871E-03	5.732E-03	4.653E-03	3.741E-03	3.004E-03	3.651E-03
IY=	19	1.710E-03	1.688E-03	1.663E-03	1.688E-03	1.769E-03	1.877E-03	1.895E-03	1.817E-03	2.627E-03
IY=	18	5.918E-04	5.987E-04	6.485E-04	7.849E-04	1.032E-03	1.433E-03	1.924E-03	2.518E-03	4.675E-03
IY=	17	3.930E-04	3.653E-04	3.815E-04	4.820E-04	7.114E-04	1.211E-03	2.222E-03	4.883E-03	1.414E-02
IY=	16	2.157E-08	3.828E-08	1.006E-07	2.814E-07	8.906E-07	3.250E-06	1.416E-05	7.115E-05	2.544E-01
IY=	15	6.336E-03	1.197E-02	3.725E-02	7.671E-02	1.248E-01	1.843E-01	2.545E-01	2.348E-01	3.037E-01
IY=	14	5.781E-02	3.559E-02	2.403E-02	1.913E-02	1.901E-02	2.400E-02	3.288E-02	2.770E-03	2.052E-03
IY=	13	3.534E-01	2.857E-01	2.294E-01	1.750E-01	1.306E-01	8.871E-02	6.023E-02	4.369E-03	5.171E-04
IY=	12	1.241E+00	1.181E+00	1.053E+00	8.475E-01	5.891E-01	3.267E-01	1.639E-01	9.844E-03	4.341E-04
IY=	11	1.321E+03	8.522E+02	2.926E+02	5.281E+01	1.116E+00	6.412E-01	2.179E-01	5.807E-02	4.417E-04
IY=	10	3.488E+04	2.868E+04	1.771E+04	6.663E+03	7.669E+02	1.221E+01	2.896E+01	1.914E+03	4.449E+04
IY=	9	1.253E+05	1.064E+05	7.092E+04	3.290E+04	7.369E+03	2.525E+02	4.658E+00	2.138E+02	4.161E+04
IY=	8	3.072E+05	2.615E+05	1.745E+05	8.740E+04	2.356E+04	1.759E+03	2.564E+01	3.090E+03	4.351E+04
IY=	7	5.872E+05	4.944E+05	3.146E+05	1.683E+05	5.038E+04	5.235E+03	6.682E+01	4.317E+03	4.269E+04
IY=	6	5.290E+05	4.368E+05	2.507E+05	2.226E+05	7.617E+04	9.159E+03	1.389E+02	5.582E+03	4.183E+04
IY=	5	4.023E+05	3.621E+05	1.627E+05	1.464E+05	8.919E+04	1.169E+04	1.884E+02	6.333E+03	4.106E+04
IY=	4	1.318E+06	1.181E+06	3.506E+05	1.795E+05	1.000E+05	1.145E+04	1.805E+02	6.945E+03	4.013E+04
IY=	3	5.934E+05	5.401E+05	2.518E+05	1.539E+05	7.840E+04	7.741E+03	9.684E+01	6.788E+03	3.893E+04
IY=	2	2.682E+05	2.398E+05	1.474E+05	1.644E+05	4.485E+04	2.733E+03	5.322E+01	6.241E+03	3.815E+04
IY=	1	6.743E-01	4.873E-01	5.970E-01	4.862E-01	1.074E+00	1.199E+00	5.752E-01	2.502E-02	3.675E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IY=	23	3.128E+05	3.124E+05	3.115E+05	3.100E+05	3.080E+05	3.056E+05	3.034E+05	3.015E+05	3.009E+05
IY=	22	3.076E+05	3.075E+05	3.072E+05	3.064E+05	3.052E+05	3.036E+05	3.018E+05	3.000E+05	2.997E+05
IY=	21	3.027E+05	3.036E+05	3.032E+05	3.025E+05	3.012E+05	2.997E+05	2.984E+05	2.975E+05	2.974E+05
IY=	20	2.993E+05	2.992E+05	2.989E+05	2.983E+05	2.977E+05	2.971E+05	2.967E+05	2.965E+05	2.965E+05
IY=	19	2.969E+05	2.968E+05	2.966E+05	2.965E+05	2.964E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05
IY=	18	2.964E+05	2.963E+05	2.962E+05						
IY=	17	2.964E+05	2.963E+05	2.962E+05						
IY=	16	2.962E+05	2.963E+05	2.962E+05						
IY=	15	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05
IY=	14	2.962E+05								
IY=	13	2.963E+05	2.963E+05	2.962E+05						
IY=	12	2.963E+05	2.963E+05	2.962E+05	2.961E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05
IY=	11	2.967E+05	2.966E+05	2.965E+05	2.962E+05	2.961E+05	2.961E+05	2.961E+05	2.962E+05	2.962E+05
IY=	10	3.030E+05	3.028E+05	3.021E+05	3.006E+05	2.980E+05	2.965E+05	2.963E+05	2.962E+05	2.962E+05
IY=	9	3.227E+05	3.215E+05	3.185E+05	3.131E+05	3.052E+05	2.983E+05	2.966E+05	2.962E+05	2.962E+05
IY=	8	3.654E+05	3.606E+05	3.499E+05	3.353E+05	3.174E+05	3.021E+05	2.970E+05	2.962E+05	2.962E+05
IY=	7	4.430E+05	4.297E+05	3.998E+05	3.677E+05	3.342E+05	3.077E+05	2.977E+05	2.962E+05	2.962E+05
IY=	6	5.984E+05	5.643E+05	4.774E+05	4.049E+05	3.512E+05	3.135E+05	2.984E+05	2.962E+05	2.962E+05
IY=	5	8.645E+05	8.134E+05	6.512E+05	4.581E+05	3.656E+05	3.182E+05	2.990E+05	2.962E+05	2.962E+05
IY=	4	8.968E+05	8.631E+05	7.626E+05	5.133E+05	3.746E+05	3.195E+05	2.990E+05	2.962E+05	2.962E+05
IY=	3	8.477E+05	8.101E+05	6.765E+05	4.691E+05	3.657E+05	3.161E+05	2.986E+05	2.962E+05	2.962E+05
IY=	2	6.397E+05	5.986E+05	4.934E+05	4.080E+05	3.495E+05	3.100E+05	2.971E+05	2.962E+05	2.962E+05
IY=	1	3.993E+05	3.877E+05	3.699E+05	3.498E+05	3.219E+05	3.003E+05	2.963E+05	2.962E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IY=	23	1.871E-01	1.951E-01	2.108E-01	2.293E-01	2.398E-01	2.514E-01	2.138E-01	1.909E-01	1.963E-01
IY=	22	1.822E-01	1.830E-01	1.841E-01	1.844E-01	1.817E-01	1.729E-01	1.600E-01	1.463E-01	1.581E-01

IY= 21	1.194E-01	1.193E-01	1.190E-01	1.179E-01	1.157E-01	1.127E-01	1.092E-01	1.039E-01	1.157E-01
IY= 20	6.877E-02	6.913E-02	7.013E-02	7.209E-02	7.628E-02	8.133E-02	8.349E-02	8.019E-02	9.305E-02
IY= 19	3.463E-02	3.624E-02	4.000E-02	4.600E-02	5.417E-02	6.232E-02	6.624E-02	6.337E-02	7.671E-02
IY= 18	3.034E-02	3.327E-02	3.579E-02	4.107E-02	4.915E-02	5.944E-02	6.873E-02	7.326E-02	9.096E-02
IY= 17	2.765E-02	2.821E-02	3.007E-02	3.427E-02	4.134E-02	5.188E-02	6.353E-02	7.122E-02	8.687E-02
IY= 16	1.562E-04	1.891E-04	2.610E-04	5.677E-04	5.399E-04	8.396E-04	1.357E-03	2.325E-03	1.960E-02
IY= 15	5.717E-03	7.069E-03	1.033E-02	1.313E-02	1.544E-02	1.758E-02	1.958E-02	1.906E-02	9.060E-03
IY= 14	1.397E-02	1.189E-02	1.043E-02	9.665E-03	9.643E-03	1.042E-02	1.158E-02	6.339E-03	7.023E-03
IY= 13	2.555E-02	2.380E-02	2.212E-02	2.021E-02	1.834E-02	1.612E-02	1.416E-02	7.322E-03	4.436E-03
IY= 12	3.884E-02	3.820E-02	3.677E-02	3.420E-02	3.027E-02	2.489E-02	1.978E-02	9.673E-03	4.185E-03
IY= 11	3.209E-00	3.295E+00	3.651E+00	1.014E+00	3.595E-02	2.692E-02	1.515E-02	9.206E-03	4.209E-03
IY= 10	6.659E-00	6.150E+00	5.080E+00	3.511E+00	1.722E+00	9.355E-02	1.067E-02	7.320E-03	4.219E-03
IY= 9	1.142E+01	1.062E+01	8.910E+00	6.388E+00	3.491E+00	1.476E+00	3.906E-01	7.594E-03	4.208E-03
IY= 8	1.609E+01	1.495E+01	1.055E+01	9.258E+00	5.375E+00	2.201E+00	1.508E+00	8.587E-03	4.188E-03
IY= 7	1.874E+01	1.721E+01	1.411E+01	1.112E+01	6.958E+00	2.816E+00	2.972E+00	9.599E-03	4.161E-03
IY= 6	9.756E+00	8.897E+00	7.393E+00	1.018E+01	7.754E+00	3.296E+00	2.794E+00	1.033E-02	4.133E-03
IY= 5	1.731E+01	1.437E+01	4.108E+00	4.976E+00	7.836E+00	3.575E+00	2.883E+00	1.091E-02	4.108E-03
IY= 4	6.589E+01	5.685E+01	1.584E+01	5.091E+00	7.852E+00	3.564E+00	2.972E+00	1.125E-02	4.076E-03
IY= 3	2.736E+01	2.303E+01	6.660E+00	4.802E+00	7.123E+00	3.225E+00	3.327E+00	1.116E-02	4.035E-03
IY= 2	5.221E+00	4.700E+00	3.900E+00	8.091E+00	6.090E+00	3.086E+00	1.510E+00	1.085E-02	4.008E-03
IY= 1	5.320E-02	6.775E-02	5.109E-02	4.771E-02	6.213E-02	6.447E-02	5.046E-02	1.749E-02	3.959E-03
IX# 1 2 3 4 5 6 7 8 9									
FIELD VALUES OF TMP1									
IY= 23	3.1115E-02	3.1111E-02	3.1038E-02	3.0878E-02	3.0698E-02	3.0448E-02	3.0222E-02	3.0033E-02	2.9970E-02
IY= 22	3.0644E-02	3.0633E-02	3.0605E-02	3.0522E-02	3.0406E-02	3.0244E-02	3.0066E-02	2.9888E-02	2.9855E-02
IY= 21	3.0255E-02	3.0246E-02	3.0218E-02	3.0133E-02	3.0006E-02	2.9955E-02	2.9733E-02	2.9633E-02	2.9622E-02
IY= 20	2.9802E-02	2.9800E-02	2.9776E-02	2.9711E-02	2.9656E-02	2.9595E-02	2.9553E-02	2.9533E-02	2.9531E-02
IY= 19	2.9575E-02	2.9565E-02	2.9546E-02	2.9532E-02	2.9525E-02	2.9511E-02	2.9511E-02	2.9509E-02	2.9505E-02
IY= 18	2.9520E-02	2.9515E-02	2.9515E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02
IY= 17	2.9520E-02	2.9520E-02	2.9515E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02
IY= 16	2.9515E-02	2.9515E-02	2.9515E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02	2.9505E-02
IY= 15	2.9505E-02								
IY= 14	2.9505E-02								
IY= 13	2.9505E-02								
IY= 12	2.9505E-02								
IY= 11	2.9555E-02	2.9555E-02	2.9552E-02						
IY= 10	3.0180E-02	3.0160E-02	3.0000E-02	2.9944E-02	2.9688E-02	2.9522E-02	2.9511E-02	2.9505E-02	2.9500E-02
IY= 9	3.2144E-02	3.2020E-02	3.1720E-02	3.1110E-02	3.0420E-02	2.9711E-02	2.9544E-02	2.9505E-02	2.9500E-02
IY= 8	3.6390E-02	3.5920E-02	3.4885E-02	3.3400E-02	3.1611E-02	3.0090E-02	2.9585E-02	2.9505E-02	2.9500E-02
IY= 7	4.4120E-02	4.2800E-02	3.9820E-02	3.6622E-02	3.5288E-02	3.0655E-02	2.9662E-02	2.9500E-02	2.9500E-02
IY= 6	5.9600E-02	5.6210E-02	4.7550E-02	4.0330E-02	3.4980E-02	3.1230E-02	2.9720E-02	2.9500E-02	2.9500E-02
IY= 5	8.6110E-02	8.1010E-02	6.4865E-02	4.5633E-02	3.6642E-02	3.1690E-02	2.9785E-02	2.9500E-02	2.9500E-02
IY= 4	8.9330E-02	8.5970E-02	7.5950E-02	5.1120E-02	3.7310E-02	3.1820E-02	2.9788E-02	2.9500E-02	2.9500E-02
IY= 3	8.4430E-02	8.0690E-02	6.7280E-02	4.6720E-02	3.6430E-02	3.1480E-02	2.9720E-02	2.9500E-02	2.9500E-02
IY= 2	6.3710E-02	5.9620E-02	4.9140E-02	4.0640E-02	3.4810E-02	3.0870E-02	2.9590E-02	2.9500E-02	2.9500E-02
IY= 1	3.9780E-02	3.8620E-02	3.6840E-02	3.4840E-02	3.2060E-02	2.9920E-02	2.9510E-02	2.9500E-02	2.9500E-02
IX# 1 2 3 4 5 6 7 8 9									
FIELD VALUES OF RHO1									
IY= 23	1.1370E+00	1.1390E+00	1.1420E+00	1.1470E+00	1.1550E+00	1.1640E+00	1.1720E+00	1.1800E+00	1.1820E+00
IY= 22	1.1560E+00	1.1570E+00	1.1580E+00	1.1610E+00	1.1650E+00	1.1720E+00	1.1790E+00	1.1850E+00	1.1870E+00
IY= 21	1.1710E+00	1.1720E+00	1.1730E+00	1.1760E+00	1.1810E+00	1.1870E+00	1.1920E+00	1.1960E+00	1.1960E+00
IY= 20	1.1880E+00	1.1890E+00	1.1900E+00	1.1920E+00	1.1950E+00	1.1970E+00	1.1990E+00	1.2000E+00	1.2000E+00
IY= 19	1.1980E+00	1.1980E+00	1.1990E+00	1.2000E+00	1.2000E+00	1.2000E+00	1.2010E+00	1.2010E+00	1.2010E+00
IY= 18	1.2000E+00	1.2000E+00	1.2010E+00						
IY= 17	1.2000E+00	1.2000E+00	1.2010E+00						
IY= 16	1.2010E+00								
IY= 15	1.2010E+00								
IY= 14	1.2000E+00	1.2010E+00							
IY= 13	1.2000E+00	1.2010E+00							
IY= 12	1.1990E+00	1.2000E+00	1.2010E+00						
IY= 11	1.1970E+00	1.1970E+00	1.1980E+00	1.1990E+00	1.1990E+00	1.2000E+00	1.2000E+00	1.2000E+00	1.2010E+00
IY= 10	1.1720E+00	1.1730E+00	1.1750E+00	1.1810E+00	1.1920E+00	1.1980E+00	1.1990E+00	1.2000E+00	1.2010E+00
IY= 9	1.1020E+00	1.1050E+00	1.1150E+00	1.1540E+00	1.1635E+00	1.1910E+00	1.1980E+00	1.2000E+00	1.2010E+00
IY= 8	9.7500E-01	9.8600E-01	1.0160E+00	1.0590E+00	1.1190E+00	1.1750E+00	1.1960E+00	1.2000E+00	1.2010E+00
IY= 7	8.0600E-01	8.3000E-01	8.9100E-01	9.6720E-01	1.0630E+00	1.1540E+00	1.1930E+00	1.2000E+00	1.2010E+00
IY= 6	5.9666E-01	6.3200E-01	7.4670E-01	8.7910E-01	1.0120E+00	1.1320E+00	1.1900E+00	1.2000E+00	1.2010E+00
IY= 5	4.1050E-01	4.3630E-01	5.4570E-01	7.7640E-01	9.7180E-01	1.1160E+00	1.1880E+00	1.2000E+00	1.2010E+00
IY= 4	3.9710E-01	4.1150E-01	4.6500E-01	6.9200E-01	9.4820E-01	1.1110E+00	1.1870E+00	1.2000E+00	1.2010E+00

IV=	3	4.174E-01	4.366E-01	5.253E-01	7.568E-01	9.705E-01	1.123E+00	1.190E+00	1.200E+00	1.201E+00
IV=	2	5.551E-01	5.928E-01	7.191E-01	8.698E-01	1.015E+00	1.145E+00	1.195E+00	1.200E+00	1.201E+00
IV=	1	8.863E-01	9.147E-01	9.588E-01	1.014E+00	1.102E+00	1.182E+00	1.198E+00	1.200E+00	1.201E+00
IX=	1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 31 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 31, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF P1

IV=	23	-1.018E+00	-1.052E+00	-1.063E+00	-1.077E+00	-1.086E+00	-1.087E+00	-1.084E+00	-1.032E+00	-1.084E+00
IV=	22	-1.003E+00	-1.013E+00	-1.023E+00	-1.038E+00	-1.054E+00	-1.068E+00	-1.074E+00	-1.047E+00	-1.068E+00
IV=	21	-9.414E-01	-9.397E-01	-9.441E-01	-9.497E-01	-9.535E-01	-9.553E-01	-9.555E-01	-9.389E-01	-9.503E-01
IV=	20	-9.216E-01	-9.202E-01	-9.218E-01	-9.236E-01	-9.252E-01	-9.261E-01	-9.265E-01	-9.137E-01	-9.213E-01
IV=	19	-9.163E-01	-9.162E-01	-9.167E-01	-9.175E-01	-9.184E-01	-9.193E-01	-9.200E-01	-9.126E-01	-9.159E-01
IV=	18	-9.165E-01	-9.165E-01	-9.168E-01	-9.173L-01	-9.183E-01	-9.196E-01	-9.211E-01	-9.191E-01	-9.172E-01
IV=	17	-9.168E-01	-9.169E-01	-9.173E-01	-9.180E-01	-9.192E-01	-9.205E-01	-9.217E-01	-9.217E-01	-9.270E-01
IV=	16	-9.172E-01	-9.174E-01	-9.179E-01	-9.188E-01	-9.200E-01	-9.213E-01	-9.223E-01	-9.225E-01	-9.263E-01
IV=	15	-9.178E-01	-9.180E-01	-9.184E-01	-9.193E-01	-9.204E-01	-9.215E-01	-9.224E-01	-9.224E-01	-9.170E-01
IV=	14	-9.184E-01	-9.185E-01	-9.189E-01	-9.196E-01	-9.207E-01	-9.216E-01	-9.222E-01	-9.220E-01	-9.169E-01
IV=	13	-9.188E-01	-9.188E-01	-9.191E-01	-9.198E-01	-9.206E-01	-9.213E-01	-9.218E-01	-9.209E-01	-9.212E-01
IV=	12	-9.186E-01	-9.187E-01	-9.190E-01	-9.196E-01	-9.204E-01	-9.210E-01	-9.214E-01	-9.202E-01	-9.199E-01
IV=	11	-9.673E+00	-1.035E+02	-1.122E+02	-1.188E+02	-1.190E+02	-1.077E+02	-8.572E+01	-5.078E+01	-9.096E+01
IV=	10	-8.790E+00	-1.004E+02	-1.087E+02	-1.162E+02	-1.142E+02	-1.023E+02	-8.614E+01	-5.158E+01	-9.040E+01
IV=	9	-7.456E+00	-8.264E+01	-9.201E+01	-1.019E+02	-1.037E+02	-9.509E+01	-8.449E+01	-5.219E+01	-8.981E+01
IV=	8	-5.768E+00	-5.917E+01	-6.907E+01	-8.341E+01	-9.158E+01	-8.826E+01	-8.222E+01	-5.252E+01	-8.918E+01
IV=	7	-4.304E+00	-3.766E+01	-4.666E+01	-6.645E+01	-7.971E+01	-8.249E+01	-8.028E+01	-5.273E+01	-8.857E+01
IV=	6	-3.554E+00	-3.558E+01	-3.935E+01	-5.924E+01	-7.268E+01	-7.848E+01	-7.882E+01	-5.293E+01	-8.804E+01
IV=	5	1.302E+02	1.018E+02	6.814E+01	6.868E+01	7.128E+01	7.622E+01	7.815E+01	5.320E+01	8.747E+01
IV=	4	1.840E+02	1.450E+02	7.882E+01	5.343E+01	6.838E+01	7.569E+01	7.807E+01	5.348E+01	8.692E+01
IV=	3	1.461E+02	1.111E+02	5.729E+01	5.417E+01	7.136E+01	7.587E+01	7.807E+01	5.362E+01	8.668E+01
IV=	2	-4.845E+00	-2.440E+01	-6.438E+01	-7.241E+01	-7.541E+01	-7.745E+01	-7.861E+01	-5.374E+01	-8.627E+01
IV=	1	3.362E+01	2.417E+01	-3.676E+00	-4.023E+01	-6.300E+01	-7.192E+01	-7.650E+01	-5.350E+01	-8.621E+01
IX=	1	2	3	4	5	6	7	8	9	

FIELD VALUES OF U1

IV=	23	-4.018E-02	-7.679E-02	-1.210E-01	-1.470E-01	-1.525E-01	-1.532E-01	-1.065E-01	2.534E-04
IV=	22	-7.191E-03	-1.417E-02	-2.292E-02	-2.880E-02	-3.392E-02	-3.874E-02	-4.868E-02	2.288E-02
IV=	21	9.371E-03	1.719E-02	2.423E-02	2.169E-02	6.400E-03	-1.462E-02	-3.609E-02	2.264E-02
IV=	20	1.193E-02	2.031E-02	2.176E-02	1.179E-02	-9.421E-03	-3.075E-02	-4.864E-02	1.363E-02
IV=	19	4.327E-03	5.195E-03	-9.532E-05	-9.177E-03	-2.346E-02	-3.784E-02	-5.187E-02	1.192E-02
IV=	18	2.479E-03	2.325E-03	-1.088E-03	-5.452E-03	-1.206E-02	-1.908E-02	-3.142E-02	1.645E-02
IV=	17	1.845E-03	2.228E-03	1.613E-03	-1.647E-04	-5.008E-03	-1.170E-02	-2.189E-02	5.643E-02
IV=	16	1.232E-03	2.190E-03	4.518E-03	5.497E-03	2.773E-03	-4.972E-03	-1.654E-02	4.894E-02
IV=	15	1.295E-03	2.972E-03	7.237E-03	9.402E-03	6.620E-03	-3.499E-03	-1.772E-02	4.480E-02
IV=	14	2.116E-03	4.950E-03	9.154E-03	1.093E-02	7.829E-03	-3.647E-03	-1.921E-02	4.540E-02
IV=	13	4.260E-03	9.088E-03	1.388E-02	1.636E-02	1.305E-02	-3.843E-03	-2.519E-02	3.620E-02
IV=	12	8.305E-03	1.422E-02	2.027E-02	2.454E-02	2.250E-02	4.221E-03	-2.584E-02	2.221E-02
IV=	11	-5.412E-01	-1.330E+00	-2.555E+00	-3.787E+00	-6.130E+00	-3.984E+00	-4.386E+00	6.225E-09
IV=	10	-5.318E-01	-1.064E+00	-2.157E+00	-3.645E+00	-5.555E+00	-5.977E+00	-5.073E+00	1.656E-15
IV=	9	-2.462E-01	-5.581E-01	-1.372E+00	-2.775E+00	-4.985E+00	-6.020E+00	-5.231E+00	1.792E-21
IV=	8	1.578E-01	1.600E-01	-2.601E-01	-1.556E+00	-3.912E+00	-5.423E+00	-5.093E+00	4.747E-22
IV=	7	6.397E-01	9.966E-01	1.073E+00	-2.897E-01	-2.812E+00	-4.659E+00	-4.847E+00	3.008E-23
IV=	6	1.274E+00	2.163E+00	2.484E+00	5.2466E+00	-2.117E+00	-4.142E+00	-4.656E+00	3.231E-26
IV=	5	6.674E-01	1.008E+00	5.318E-06	1.021E-01	-1.915E+00	-3.790E+00	-4.529E+00	3.877E-26
IV=	4	1.605E-01	1.687E-01	3.054E-07	-1.421E-01	-1.984E+00	-3.616E+00	-4.442E+00	4.524E-26
IV=	3	2.794E-01	2.351E-01	-6.582E-07	-1.144E+00	-2.439E+00	-3.639E+00	-4.409E+00	1.939E-26
IV=	2	-7.708E-01	-1.645E+00	-4.159E+00	-3.303E+00	-3.188E+00	-3.721E+00	-4.378E+00	6.139E-26
IV=	1	-1.429E+00	-1.448E+00	-5.330E-01	2.012E-01	-1.199E+00	-3.037E+00	-4.200E+00	6.139E-26
IX=	1	2	3	4	5	6	7	8	

FIELD VALUES OF V1

IV=	22	-6.472E-01	-6.304E-01	-5.949E-01	-5.317E-01	-4.435E-01	-3.291E-01	-2.179E-01	-1.275E-01	-9.333E-02
IV=	21	-3.338E-01	-3.036E-01	-2.380E-01	-1.347E-01	-1.985E-02	6.239E-02	9.462E-02	9.229E-02	1.044E-01
IV=	20	-1.487E-01	-1.193E-01	-5.956E-02	1.193E-02	6.275E-02	7.508E-02	6.505E-02	4.609E-02	4.742E-02
IV=	19	-3.026E-02	-9.249E-03	2.365E-02	4.597E-02	4.914E-02	3.547E-02	1.878E-02	4.084E-03	7.587E-03
IV=	18	8.755E-03	2.071E-02	3.368E-02	3.676E-02	2.951E-02	1.422E-02	6.171E-04	-2.294E-03	7.844E-02
IV=	17	9.288E-03	1.753E-02	2.734E-02	3.079E-02	2.678E-02	1.635E-02	2.737E-03	-1.610E-02	1.713E-01
IV=	16	6.178E-03	1.235E-02	2.113E-02	2.526E-02	2.449E-02	2.104E-02	1.179E-02	-2.636E-03	2.364E-01
IV=	15	3.270E-04	6.057E-03	1.561E-02	2.019E-02	2.217E-02	2.547E-02	2.340E-02	7.747E-03	2.896E-01
IX=	1	2	3	4	5	6	7	8		

IY*	14	-2.394E-03	3.515E-03	1.349E-02	1.738E-02	1.030E-02	2.370E-02	2.315E-02	9.255E-03	3.165E-01
IY*	13	-5.111E-03	9.989E-04	8.745E-03	1.076E-02	1.294E-02	1.931E-02	2.085E-02	1.095E-02	3.377E-01
IY*	12	-3.956E-03	1.831E-03	4.700E-03	5.459E-03	7.233E-03	1.262E-02	1.266E-02	5.776E-03	3.247E-01
IY*	11	1.379E-08	1.247E-08	1.741E-08	1.465E-08	1.349E-08	7.347E-09	-7.252E-12	2.814E-10	2.984E-01
IY*	10	-8.830E-02	-2.569E-02	3.971E-01	9.325E-01	1.162E+00	9.126E-02	-1.526E+00	-8.433E-01	2.755E-01
IY*	9	3.695E-01	5.364E-01	8.213E-01	1.116E+00	1.274E-00	5.093E-01	-1.070E+00	-8.834E-01	2.540E-01
IY*	8	9.049E-01	1.086E+00	1.222E+00	1.146E+00	1.081E+00	6.403E-01	-6.727E-01	-7.069E-01	2.318E-01
IY*	7	1.363E+00	1.484E+00	1.484E+00	8.835E-01	5.634E-01	4.721E-01	-3.622E-01	-4.955E-01	2.082E-01
IY*	6	1.517E+00	1.472E+00	1.406E+00	1.050E-02	-3.979E-01	7.912E-03	-2.582E-01	-3.364E-01	1.838E-01
IY*	5	1.721E-07	9.294E-08	-1.839E-06	-1.767E+00	-1.630E+00	-5.773E-01	-2.830E-01	-2.423E-01	1.614E-01
IY*	4	6.239E-01	2.493E-01	-1.109E+00	-4.118E+00	-3.015E+00	-1.245E+00	-3.549E-01	-1.610E-01	1.336E-01
IY*	3	-4.240E-02	-4.752E-02	-2.649E-01	-7.422E+00	-4.452E+00	-1.646E+00	-3.137E-01	-9.122E-02	1.013E-01
IY*	2	2.458E-08	2.023E-08	-1.921E-05	-8.280E+00	-4.640E+00	-1.541E+00	-2.445E-01	-5.992E-02	8.590E-02
IY*	1	-3.006E+00	-4.806E+00	-4.737E+00	-5.277E+00	-2.740E+00	-9.298E-02	1.537E-01	3.570E-02	4.285E-02
IX*	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										
IY*	23	-2.491E+00	-2.406E+00	-2.225E+00	-1.923E+00	-1.559E+00	-1.060E+00	-6.115E-01	-2.565E-01	-1.618E-07
IY*	22	-7.006E-01	-6.603E-01	-5.728E-01	-4.235E-01	-2.271E-01	-1.268E-02	1.586E-01	2.589E-01	3.405E-01
IY*	21	-3.267E-01	-2.978E-01	-2.349E-01	-1.342E-01	-2.769E-02	5.663E-02	1.105E-01	1.328E-01	1.722E-01
IY*	20	-1.478E-01	-1.234E-01	-7.613E-02	-2.669E-02	1.210E-02	4.185E-02	6.042E-02	6.551E-02	8.671E-02
IY*	19	-6.457E-02	-5.163E-02	-3.818E-02	-2.982E-02	-2.076E-02	-8.218E-03	5.205E-03	1.859E-02	6.039E-02
IY*	18	-6.174E-02	-5.762E-02	-5.466E-02	-5.133E-02	-4.323E-02	-3.219E-02	-1.945E-02	-8.479E-03	1.371E-01
IY*	17	-5.772E-02	-5.574E-02	-5.545E-02	-5.350E-02	-4.652E-02	-3.650E-02	-2.830E-02	-2.500E-02	1.731E-01
IY*	16	-5.107E-02	-5.105E-02	5.336E-02	-5.187E-02	-4.241E-02	-2.923E-02	-2.240E-02	-2.441E-02	2.409E-01
IY*	15	-4.669E-02	-4.805E-02	-5.244E-02	-4.860E-02	-3.550E-02	-1.733E-02	-1.121E-02	-1.984E-02	3.255E-01
IY*	14	-4.528E-02	-4.859E-02	-5.266E-02	-4.716E-02	-3.171E-02	-9.619E-03	-1.228E-04	-1.140E-02	3.789E-01
IY*	13	-4.894E-02	-5.216E-02	-5.273E-02	-4.574E-02	-2.726E-02	5.017E-03	2.246E-02	9.796E-03	4.768E-01
IY*	12	-5.094E-02	-5.925E-02	-5.475E-02	-4.928E-02	-3.130E-02	2.030E-03	4.409E-02	4.322E-02	5.469E-01
IY*	11	1.152E+01	9.566E+00	7.018E+00	4.206E+00	-3.190E-01	-4.788E+00	-5.808E+00	-3.502E+00	5.744E-01
IY*	10	2.314E+01	2.156E+01	1.824E+01	1.284E+01	5.745E+00	-1.647E+00	-4.556E+00	-2.965E+00	5.746E-01
IY*	9	3.420E+01	3.201E+01	2.710E+01	1.925E+01	9.462E+00	7.055E-02	-3.783E+00	-2.462E+00	5.737E-01
IY*	8	5.029E+01	4.679E+01	3.876E+01	2.705E+01	1.560E+01	1.772E+00	-3.341E+00	-2.034E+00	5.750E-01
IY*	7	7.447E+01	6.840E+01	5.366E+01	3.580E+01	1.770E+01	3.412E+00	-3.061E+00	-1.717E+00	5.722E-01
IY*	6	1.275E+02	1.152E+02	7.549E+01	4.290E+01	2.039E+01	4.618E+00	-2.699E+00	-1.522E+00	5.715E-01
IY*	5	4.256E+02	3.926E+02	2.802E+02	5.317E+01	2.138E+01	4.840E+00	-2.355E+00	-1.365E+00	5.701E-01
IY*	4	4.142E+02	3.988E+02	3.518E+02	7.502E+01	2.322E+01	4.865E+00	-2.258E+00	-1.254E+00	5.678E-01
IY*	3	4.133E+02	3.877E+02	2.807E+02	6.497E+01	2.019E+01	3.605E+00	-2.382E+00	-1.211E+00	5.633E-01
IY*	2	1.496E+02	1.210E+02	6.036E+01	3.479E+01	1.410E+01	1.134E+00	-2.592E+00	-1.157E+00	5.616E-01
IY*	1	4.094E+01	3.956E+01	2.743E+01	1.795E+01	5.240E+00	-3.449E+00	-3.024E+00	-1.133E+00	5.543E-01
IX*	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IY*	23	5.939E-01	6.231E-01	6.873E-01	7.837E-01	8.686E-01	8.729E-01	7.563E-01	5.796E-01	5.173E-01
IY*	22	4.335E-01	4.374E-01	4.456E-01	4.465E-01	4.234E-01	3.570E-01	2.700E-01	1.882E-01	1.818E-01
IY*	21	1.761E-01	1.740E-01	1.659E-01	1.440E-01	1.142E-01	8.915E-02	7.195E-02	5.769E-02	6.611E-02
IY*	20	5.869E-02	5.565E-02	4.806E-02	3.986E-02	3.496E-02	3.389E-02	3.270E-02	2.968E-02	3.872E-02
IY*	19	1.211E-02	1.096E-02	9.726E-03	1.010E-02	1.184E-02	1.593E-02	1.434E-02	1.253E-02	2.039E-02
IY*	18	5.453E-03	4.347E-03	3.299E-03	2.919E-03	3.571E-03	4.930E-03	5.472E-03	3.436E-03	1.017E-02
IY*	17	4.619E-03	3.568E-03	2.497E-03	1.889E-03	1.762E-03	1.923E-03	1.924E-03	1.052E-03	1.220E-02
IY*	16	4.000E-03	2.867E-03	1.814E-03	1.268E-03	9.666E-04	6.652E-04	4.456E-04	3.916E-04	1.631E-02
IY*	15	3.382E-03	2.277E-03	1.343E-03	9.276E-04	6.831E-04	4.035E-04	2.910E-04	3.309E-04	1.870E-02
IY*	14	2.723E-03	1.702E-03	9.945E-04	7.210E-04	5.571E-04	3.164E-04	2.196E-04	3.139E-04	1.718E-02
IY*	13	1.797E-03	9.810E-04	5.427E-04	4.001E-04	3.115E-04	1.646E-04	1.400E-04	2.509E-04	1.506E-02
IY*	12	4.741E-05	4.762E-05	4.368E-05	3.943E-05	2.245E-05	3.611E-06	2.903E-05	2.670E-05	1.068E-02
IY*	11	6.344E-01	4.540E-01	2.707E-01	1.506E-01	8.986E-02	2.076E-01	2.642E-01	8.392E-02	3.276E-03
IY*	10	9.008E-02	8.361E-02	6.888E+00	4.674E+00	2.245E+00	3.047E+01	1.765E+00	5.586E-02	3.189E-03
IY*	9	1.509E+03	1.382E+03	1.113E+03	7.437E+02	3.599E+02	7.574E+01	1.437E+00	4.045E-02	3.103E-03
IY*	8	2.250E+03	2.031E+03	1.573E+03	1.041E+03	5.112E+02	1.276E+02	1.795E+00	2.818E-02	3.020E-03
IY*	7	2.856E+03	2.521E+03	1.808E+03	1.242E+03	6.377E+02	1.784E+02	2.155E+00	2.022E-02	2.942E-03
IY*	6	5.840E+01	4.828E+01	2.209E+01	1.074E+03	6.743E+02	2.023E+02	1.878E+01	1.593E-02	2.872E-03
IY*	5	5.392E+02	4.636E+02	2.459E+02	1.112E+01	6.541E+02	2.116E+02	2.369E+01	1.291E-02	2.804E-03
IY*	4	1.081E+04	9.408E+03	3.745E+02	2.112E+01	7.536E+02	2.166E+02	2.451E+01	1.095E-02	2.727E-03
IY*	3	5.523E+02	4.902E+02	2.570E+	1.630E+01	6.603E+02	1.837E+02	2.085E+01	1.023E-02	2.653E-03
IY*	2	7.220E+01	4.857E+01	1.334E+01	7.637E+02	4.748E+02	1.209E+02	1.524E+01	9.389E-03	2.606E-03
IY*	1	6.485E+00	6.091E+00	3.087E+00	1.408E+00	1.475E-01	9.121E-02	1.206E-01	2.191E-02	2.529E-03
IX*	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IY*	23	1.910E-01	1.986E-01	2.173E-01	2.474E-01	2.724E-01	2.618E-01	2.004E-01	1.247E-01	9.506E-02
IY*	22	9.583E-02	9.713E-02	9.928E-02	9.899E-02	9.096E-02	6.994E-02	4.435E-02	2.413E-02	2.025E-02

IV= 21	2.968E-02	2.916E-02	2.705E-02	2.120E-02	1.354E-02	7.947E-03	5.291E-03	3.650E-03	4.163E-03
IV= 20	7.115E-03	6.484E-03	4.872E-03	3.108E-03	2.057E-03	1.740E-03	1.568E-03	1.398E-03	1.965E-03
IV= 19	8.462E-04	6.374E-04	3.798E-04	1.143E-04	3.74E-04	4.866E-04	5.544E-04	5.618E-04	1.222E-03
IV= 18	2.549E-04	1.623E-04	8.658E-05	6.235E-05	8.047E-05	1.403E-04	1.834E-04	1.362E-04	1.652E-03
IV= 17	1.669E-04	1.033E-04	5.270E-05	3.467E-05	3.584E-05	5.122E-05	7.006E-05	6.226E-05	2.477E-03
IV= 16	1.285E-04	7.319E-05	3.474E-05	2.223E-05	1.945E-05	2.051E-05	2.450E-05	3.272E-05	4.011E-03
IV= 15	1.051E-04	5.510E-05	2.439E-05	1.548E-05	1.366E-05	1.344E-05	1.735E-05	3.119E-05	5.487E-03
IV= 14	8.555E-05	4.031E-05	1.777E-05	1.218E-05	1.124E-05	1.037E-05	1.282E-05	5.082E-05	3.697E-03
IV= 13	5.669E-05	2.247E-05	8.999E-06	6.309E-06	6.039E-06	4.936E-06	8.896E-06	2.667E-05	3.035E-03
IV= 12	4.120E-07	4.083E-07	3.587E-07	3.076E-07	1.321E-07	1.000E-08	1.943E-07	1.715E-07	2.003E-03
IV= 11	7.634E-01	4.621E-01	2.151E-01	8.832E-02	4.070E-02	1.422E-01	2.051E-01	3.50e-02	2.703E-04
IV= 10	1.633E+04	1.453E+04	1.083E+04	6.077E+03	2.040E+03	1.504E+02	4.314E+00	1.813E+02	2.597E+04
IV= 9	3.576E+04	3.129E+04	2.237E+04	1.222E+04	4.166E+03	4.014E+02	4.490E+00	1.117E+02	2.492E+04
IV= 8	7.034E+04	6.032E+04	4.057E+04	2.157E+04	7.356E+03	9.599E+07	4.688E+00	6.497E+03	2.393E+04
IV= 7	1.180E+05	9.815E+04	5.867E+04	3.167E+04	1.096E+04	1.675E+03	9.465E+00	3.969E+03	2.301E+04
IV= 6	1.124E+03	8.473E+02	2.615E+02	3.150E+04	1.279E+04	2.123E+03	2.470E+01	2.761E+03	2.219E+04
IV= 5	2.592E+04	2.066E+04	7.725E+03	7.185E+01	1.270E+04	2.299E+03	4.324E+01	2.016E+03	2.141E+04
IV= 4	4.981E+05	4.410E+05	1.404E+04	1.880E+02	1.667E+04	2.527E+03	4.790E+01	1.574E+03	2.053E+04
IV= 3	4.903E+04	4.099E+04	1.177E+04	1.275E+02	1.366E+04	1.980E+03	3.284E+01	1.422E+03	1.970E+04
IV= 2	8.246E+02	4.550E+02	6.552E+01	2.062E+04	7.828E+03	9.974E+02	1.533E+01	1.244E+03	1.917E+04
IV= 1	2.220E+01	2.021E+01	7.290E+00	2.247E+00	7.614E+02	3.703E+02	5.632E+02	4.407E+03	1.833E+04
IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF H1									
IV= 23	3.146E+05	3.140E+05	3.134E+05	3.121E+05	3.104E+05	3.082E+05	3.060E+05	3.029E+05	3.025E+05
IV= 22	3.092E+05	3.091E+05	3.086E+05	3.077E+05	3.062E+05	3.042E+05	3.021E+05	3.002E+05	2.999E+05
IV= 21	3.046E+05	3.044E+05	3.036E+05	3.020E+05	3.000E+05	2.982E+05	2.972E+05	2.966E+05	2.965E+05
IV= 20	2.994E+05	2.990E+05	2.982E+05	2.972E+05	2.966E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05
IV= 19	2.966E+05	2.964E+05	2.962E+05						
IV= 18	2.962E+05								
IV= 17	2.963E+05	2.962E+05							
IV= 16	2.962E+05								
IV= 15	2.962E+05								
IV= 14	2.962E+05								
IV= 13	2.962E+05								
IV= 12	2.962E+05								
IV= 11	3.010E+05	3.018E+05	3.035E+05	3.055E+05	3.058E+05	3.054E+05	3.037E+05	2.988E+05	2.962E+05
IV= 10	3.172E+05	3.176E+05	3.179E+05	3.167E+05	3.121E+05	3.043E+05	3.024E+05	2.985E+05	2.962E+05
IV= 9	3.393E+05	3.382E+05	3.353E+05	3.295E+05	3.195E+05	3.063E+05	3.010E+05	2.981E+05	2.962E+05
IV= 8	3.763E+05	3.719E+05	3.616E+05	3.476E+05	3.298E+05	3.099E+05	2.997E+05	2.975E+05	2.962E+05
IV= 7	4.323E+05	4.212E+05	3.960E+05	3.692E+05	3.416E+05	3.146E+05	2.991E+05	2.970E+05	2.962E+05
IV= 6	5.395E+05	5.129E+05	4.411E+05	3.884E+05	3.511E+05	3.184E+05	2.998E+05	2.967E+05	2.962E+05
IV= 5	8.563E+05	8.220E+05	6.752E+05	4.146E+05	3.582E+05	3.215E+05	3.001E+05	2.964E+05	2.962E+05
IV= 4	8.455E+05	8.339E+05	8.010E+05	4.568E+05	3.663E+05	3.233E+05	3.000E+05	2.963E+05	2.962E+05
IV= 3	8.492E+05	8.291E+05	7.060E+05	4.454E+05	3.628E+05	3.209E+05	2.995E+05	2.962E+05	2.962E+05
IV= 2	6.319E+05	5.768E+05	4.600E+05	4.009E+05	3.538E+05	3.153E+05	2.987E+05	2.962E+05	2.962E+05
IV= 1	4.246E+05	4.230E+05	3.989E+05	3.702E+05	3.345E+05	3.019E+05	2.967E+05	2.962E+05	2.962E+05
IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF VIST									
IV= 23	1.662E-01	1.759E-01	1.956E-01	2.235E-01	2.493E-01	2.619E-01	2.569E-01	2.425E-01	2.533E-01
IV= 22	1.757E-01	1.773E-01	1.800E-01	1.813E-01	1.774E-01	1.640E-01	1.479E-01	1.321E-01	1.469E-01
IV= 21	9.402E-02	9.344E-02	9.157E-02	8.767E-02	8.675E-02	9.001E-02	8.806E-02	8.208E-02	9.449E-02
IV= 20	4.328E-02	4.268E-02	4.268E-02	4.602E-02	5.348E-02	5.939E-02	6.135E-02	5.674E-02	6.866E-02
IV= 19	1.560E-02	1.702E-02	2.241E-02	2.921E-02	3.558E-02	3.589E-02	3.338E-02	2.514E-02	3.064E-02
IV= 18	1.042E-02	1.048E-02	1.131E-02	1.230E-02	1.427E-02	1.559E-02	1.469E-02	7.804E-03	5.638E-03
IV= 17	1.150E-02	1.109E-02	1.065E-02	9.267E-03	7.796E-03	6.496E-03	4.755E-03	1.599E-03	5.412E-03
IV= 16	1.121E-02	1.010E-02	8.52' 03	6.511E-03	4.325E-03	1.942E-03	7.295E-04	4.218E-04	5.966E-03
IV= 15	9.795E-03	8.471E-03	6.659E-03	5.002E-03	3.074E-03	1.090E-03	4.391E-04	5.139E-04	5.737E-03
IV= 14	7.861E-03	6.471E-03	5.010E-03	3.841E-03	2.486E-03	8.690E-04	3.384E-04	2.877E-04	7.187E-03
IV= 13	5.126E-03	3.855E-03	2.945E-03	2.284E-03	1.446E-03	4.941E-04	1.983E-04	2.141E-04	6.726E-03
IV= 12	5.014E-04	4.999E-04	4.788E-04	4.549E-04	3.432E-04	1.173E-04	3.903E-04	3.743E-04	5.126E-03
IV= 11	4.745E-02	4.014E-02	3.111E-02	2.312E-02	1.786E-02	2.714E-02	3.062E-02	1.808E-02	3.573E-03
IV= 10	4.472E+00	4.311E+00	3.964E+00	3.236E+00	2.224E+00	6.383E-01	6.499E-02	1.549E-02	3.526E-03
IV= 9	5.730E+00	5.496E+00	4.983E+00	4.074E+00	2.798E+00	1.285E+00	4.138E-02	1.518E-02	3.478E-03
IV= 8	6.475E+00	6.155E+00	5.489E+00	4.519E+00	3.197E+00	1.527E+00	6.188E-02	1.100E-02	3.431E-03
IV= 7	6.224E+00	5.827E+00	5.017E+00	4.387E+00	3.341E+00	1.710E+00	4.633E-01	9.318E-03	3.386E-03
IV= 6	2.731E-01	2.486E-01	1.680E-01	3.297E+00	3.200E+00	1.734E+00	1.285E+00	8.270E-03	3.346E-03
IV= 5	1.010E+00	9.364E-01	7.045E-01	1.550E-01	3.031E+00	1.752E+00	1.168E+00	7.447E-05	3.306E-03
IV= 4	2.112E+01	1.807E+01	8.992E-01	2.136E-01	3.065E+00	1.670E+00	1.128E+00	6.857E-03	3.260E-03

IY=	3	5.600E-01	5.276E-01	5.051E-01	1.876E-01	2.872E+00	1.534E+00	1.192E+00	6.629E-03	3.216E-03
IY=	2	5.690E-01	4.667E-01	2.446E-01	2.545E+00	2.592E+00	1.319E+00	1.364E+00	6.350E-03	3.187E-03
IY=	1	1.705E-01	1.653E-01	1.176E-01	7.947E-02	2.572E-02	2.022E-02	2.520E-02	9.805E-03	3.159E-03
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1										
IY=	23	3.133E-02	3.130E-02	3.122E-02	3.109E-02	3.092E-02	3.070E-02	3.048E-02	3.027E-02	3.002E-02
IY=	22	3.080E-02	3.078E-02	3.074E-02	3.065E-02	3.050E-02	3.030E-02	3.009E-02	2.990E-02	2.987E-02
IY=	21	3.034E-02	3.031E-02	3.024E-02	3.008E-02	2.988E-02	2.970E-02	2.960E-02	2.954E-02	2.953E-02
IY=	20	2.982E-02	2.978E-02	2.970E-02	2.961E-02	2.954E-02	2.951E-02	2.950E-02	2.950E-02	2.950E-02
IY=	19	2.954E-02	2.952E-02	2.951E-02	2.950E-02	2.950E-02	2.950E-02	2.950E-02	2.950E-02	2.950E-02
IY=	18	2.950E-02								
IY=	17	2.951E-02	2.951E-02	2.950E-02						
IY=	16	2.951E-02	2.951E-02	2.950E-02						
IY=	15	2.950E-02								
IY=	14	2.950E-02								
IY=	13	2.950E-02								
IY=	12	2.950E-02								
IY=	11	2.998E-02	3.006E-02	3.023E-02	3.043E-02	3.046E-02	3.042E-02	3.025E-02	2.976E-02	2.950E-02
IY=	10	3.160E-02	3.163E-02	3.166E-02	3.155E-02	3.109E-02	3.031E-02	3.012E-02	2.973E-02	2.950E-02
IY=	9	3.379E-02	3.368E-02	3.339E-02	3.281E-02	3.183E-02	3.051E-02	2.998E-02	2.969E-02	2.950E-02
IY=	8	3.748E-02	3.704E-02	3.602E-02	3.462E-02	3.285E-02	3.087E-02	2.985E-02	2.963E-02	2.950E-02
IY=	7	4.306E-02	4.196E-02	3.944E-02	3.679E-02	3.401E-02	3.134E-02	2.980E-02	2.958E-02	2.950E-02
IY=	6	5.373E-02	5.109E-02	4.392E-02	3.869E-02	3.497E-02	3.172E-02	2.986E-02	2.956E-02	2.950E-02
IY=	5	8.529E-02	8.187E-02	6.726E-02	4.129E-02	3.568E-02	3.202E-02	2.989E-02	2.952E-02	2.950E-02
IY=	4	8.421E-02	8.336E-02	7.978E-02	4.550E-02	3.648E-02	3.220E-02	2.988E-02	2.951E-02	2.950E-02
IY=	3	8.459E-02	8.258E-02	7.032E-02	4.436E-02	3.614E-02	3.196E-02	2.982E-02	2.950E-02	2.950E-02
IY=	2	6.293E-02	5.745E-02	4.582E-02	3.993E-02	3.524E-02	3.141E-02	2.975E-02	2.950E-02	2.950E-02
IY=	1	4.229E-02	4.213E-02	3.973E-02	3.687E-02	3.331E-02	3.007E-02	2.955E-02	2.950E-02	2.950E-02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1										
IY=	23	1.131E+00	1.132E+00	1.135E+00	1.140E+00	1.146E+00	1.154E+00	1.162E+00	1.170E+00	1.172E+00
IY=	22	1.150E+00	1.151E+00	1.153E+00	1.156E+00	1.162E+00	1.169E+00	1.177E+00	1.185E+00	1.186E+00
IY=	21	1.168E+00	1.169E+00	1.172E+00	1.178E+00	1.186E+00	1.193E+00	1.197E+00	1.199E+00	1.200E+00
IY=	20	1.188E+00	1.190E+00	1.193E+00	1.197E+00	1.199E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY=	19	1.199E+00	1.200E+00	1.201E+00						
IY=	18	1.201E+00								
IY=	17	1.200E+00	1.201E+00							
IY=	16	1.201E+00								
IY=	15	1.201E+00								
IY=	14	1.201E+00								
IY=	13	1.201E+00								
IY=	12	1.201E+00								
IY=	11	1.181E+00	1.178E+00	1.171E+00	1.163E+00	1.162E+00	1.163E+00	1.170E+00	1.190E+00	1.201E+00
IY=	10	1.120E+00	1.119E+00	1.118E+00	1.122E+00	1.138E+00	1.175E+00	1.191E+00	1.201E+00	1.201E+00
IY=	9	1.048E+00	1.051E+00	1.060E+00	1.079E+00	1.112E+00	1.160E+00	1.181E+00	1.193E+00	1.201E+00
IY=	8	9.447E-01	9.560E-01	9.829E-01	1.023E+00	1.078E+00	1.147E+00	1.186E+00	1.195E+00	1.201E+00
IY=	7	8.224E-01	8.441E-01	8.978E-01	9.625E-01	1.041E+00	1.130E+00	1.188E+00	1.197E+00	1.201E+00
IY=	6	6.591E-01	6.932E-01	8.062E-01	9.152E-01	1.012E+00	1.116E+00	1.186E+00	1.198E+00	1.201E+00
IY=	5	4.159E-01	4.322E-01	5.271E-01	8.575E-01	9.924E-01	1.106E+00	1.185E+00	1.199E+00	1.201E+00
IY=	4	4.215E-01	4.271E-01	4.444E-01	7.782E-01	9.705E-01	1.099E+00	1.185E+00	1.200E+00	1.201E+00
IY=	3	4.194E-01	4.295E-01	5.041E-01	7.983E-01	9.797E-01	1.108E+00	1.187E+00	1.200E+00	1.201E+00
IY=	2	5.629E-01	6.166E-01	7.727E-01	8.865E-01	1.005E+00	1.127E+00	1.190E+00	1.200E+00	1.201E+00
IY=	1	8.380E-01	8.411E-01	8.918E-01	9.605E-01	1.063E+00	1.177E+00	1.198E+00	1.200E+00	1.201E+00
IX=	1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 33 ITERM NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 33, ISWEEP= 70, ISTEP= 1
 FIELD VALUES OF P1

IY=	23	-1.104E+00	-1.147E+00	-1.169E+00	-1.203E+00	-1.232E+00	-1.244E+00	-1.240E+00	-1.171E+00	-1.253E+00
IY=	22	-1.643E+00	-1.444E+00	-1.455E+00	-1.462E+00	-1.460E+00	-1.439E+00	-1.404E+00	-1.330E+00	-1.331E+00
IY=	21	-9.713E-01	-9.717E-01	-9.697E-01	-9.697E-01	-9.705E-01	-9.761E-01	-9.766E-01	-9.794E-01	-9.984E-01
IY=	20	-9.265E-01	-9.279E-01	-9.287E-01	-9.305E-01	-9.318E-01	-9.323E-01	-9.324E-01	-9.288E-01	-9.544E-01
IY=	19	-9.139E-01	-9.163E-01	-9.152E-01	-9.163E-01	-9.180E-01	-9.194E-01	-9.199E-01	-9.109E-01	-9.120E-01
IY=	18	-9.089E-01	-9.098E-01	-9.119E-01	-9.139E-01	-9.162E-01	-9.175E-01	-9.176E-01	-9.029E-01	-9.004E-01
IY=	17	-9.085E-01	-9.098E-01	-9.114E-01	-9.136E-01	-9.163E-01	-9.179E-01	-9.181E-01	-9.031E-01	-8.985E-01

IV= 16	-9.099E-01	-9.106E-01	-9.125E-01	-9.145E-01	-9.171E-01	-9.185E-01	-9.185E-01	-9.018E-01	-8.949E-01
IV= 15	-9.127E-01	-9.129E-01	-9.145E-01	-9.160E-01	-9.182E-01	-9.194E-01	-9.187E-01	-8.993E-01	-8.903E-01
IV= 14	-9.157E-01	-9.159E-01	-9.164E-01	-9.171E-01	-9.186E-01	-9.191E-01	-9.174E-01	-8.959E-01	-8.851E-01
IV= 13	-9.179E-01	-9.187E-01	-9.185E-01	-9.179E-01	-9.190E-01	-9.193E-01	-9.169E-01	-8.922E-01	-8.776E-01
IV= 12	-9.106E-01	-9.135E-01	-9.158E-01	-9.154E-01	-9.184E-01	-9.199E-01	-9.185E-01	-8.997E-01	-8.695E-01
IV= 11	1.579E-02	1.505E+02	1.193E+02	6.385E+01	9.827E+00	-2.792E+01	-2.006E+01	3.240E+01	-8.348E-01
IV= 10	1.824E+02	1.707E+02	1.335E+02	6.928E+01	4.765E+00	-4.037E+01	-4.298E+01	1.855E+00	-8.178E-01
IV= 9	1.124E+02	1.166E+02	8.470E+01	5.678E+01	-1.001E+01	-4.371E+01	-4.746E+01	-1.565E+01	-8.060E-01
IV= 8	7.366E+01	8.011E+01	4.997E+01	6.597E+00	-2.631E+01	-5.005E+01	-5.010E+01	-2.462E+01	-7.963E-01
IV= 7	6.405E+01	6.505E+01	3.291E+01	-1.395E+01	-4.052E+01	-5.256E+01	-5.048E+01	-2.903E+01	-7.883E-01
IV= 6	8.269E+01	6.695E+01	2.515E+01	-3.374E+01	-4.731E+01	-5.198E+01	-4.890E+01	-3.086E+01	-7.822E-01
IV= 5	-3.077E+02	-3.096E+02	-3.134E+02	-5.177E+01	-5.039E+01	-5.014E+01	-4.720E+01	-3.257E+01	-7.761E-01
IV= 4	-2.395E+02	-2.599E+02	-2.522E+02	-4.232E+01	-4.703E+01	-4.755E+01	-4.674E+01	-3.414E+01	-7.706E-01
IV= 3	-1.135E+02	-1.304E+02	-1.801E+02	-3.986E+01	-4.763E+01	-4.735E+01	-4.704E+01	-3.471E+01	-7.684E-01
IV= 2	-1.002E+02	-1.059E+02	-1.055E+02	-7.424E+01	-5.314E+01	-4.827E+01	-4.781E+01	-3.620E+01	-7.646E-01
IV= 1	-8.181E+01	-7.787E+01	-6.916E+01	-5.077E+01	-4.587E+01	-4.563E+01	-4.717E+01	-3.667E+01	-7.644E-01
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF U1									
IV= 23	-5.455E-02	-1.054E-01	-1.688E-01	-2.069E-01	-2.111E-01	-1.664E-01	-1.068E-01	2.647E-02	
IV= 22	-3.792E-02	-7.559E-02	-1.276E-01	-1.629E-01	-1.779E-01	-1.712E-01	-1.546E-01	-2.188E-02	
IV= 21	-5.300E-02	-7.557E-02	-5.348E-02	-1.178E-02	3.831E-03	-9.574E-03	-8.514E-03	9.398E-02	
IV= 20	-2.038E-02	-5.880E-03	-1.102E-02	-3.493E-02	-5.208E-02	-6.062E-02	-5.993E-02	4.045E-02	
IV= 19	-1.185E-02	-2.826E-02	-5.065E-02	-6.990E-02	-8.945E-02	-9.866E-02	-9.712E-02	-8.076E-03	
IV= 18	-1.026E-02	-3.995E-02	-7.535E-02	-1.010E-01	-1.230E-01	-1.326E-01	-1.308E-01	-3.823E-02	
IV= 17	-1.294E-02	-4.184E-02	-7.600E-02	-1.027E-01	-1.270E-01	-1.382E-01	-1.364E-01	-4.418E-02	
IV= 16	-1.645E-02	-4.561E-02	-7.883E-02	-1.064E-01	-1.325E-01	-1.451E-01	-1.442E-01	-5.176E-02	
IV= 15	-1.988E-02	-4.691E-02	-7.762E-02	-1.068E-01	-1.352E-01	-1.500E-01	-1.517E-01	-5.974E-02	
IV= 14	-1.383E-02	-4.007E-02	-7.382E-02	-1.038E-01	-1.340E-01	-1.511E-01	-1.550E-01	-6.481E-02	
IV= 13	6.254E-03	-1.080E-02	-5.092E-02	-8.302E-02	-1.195E-01	-1.428E-01	-1.548E-01	-7.429E-02	
IV= 12	4.845E-02	5.354E-02	2.211E-02	-2.847E-02	-8.320E-02	-1.131E-01	-1.309E-01	-7.787E-02	
IV= 11	3.496E+00	6.592E+00	1.037E+01	1.322E+01	1.499E+01	1.449E+01	1.081E+01	2.332E-07	
IV= 10	2.153E+00	4.298E+00	6.685E+00	8.012E+00	8.233E+00	7.407E+00	5.031E+00	1.058E-07	
IV= 9	1.760E+00	3.106E+00	4.612E+00	5.216E+00	4.903E+00	5.883E+00	1.515E+00	5.535E-08	
IV= 8	1.511E+00	2.700E+00	3.802E+00	3.716E+00	2.719E+00	1.537E+00	-9.470E-01	2.450E-08	
IV= 7	1.564E+00	2.763E+00	3.675E+00	2.720E+00	1.025E+00	-6.067E-01	-2.577E+00	2.771E-09	
IV= 6	1.845E+00	5.596E+00	4.090E+00	1.823E+00	-1.919E-01	-1.866E+00	-3.396E+00	3.033E-15	
IV= 5	6.775E-01	9.623E-01	6.673E-06	9.279E-02	-1.213E+00	-2.662E+00	-3.621E+00	1.413E-21	
IV= 4	4.404E-01	6.127E-01	2.870E-07	-4.558E-01	-1.754E+00	-2.934E+00	-3.448E+00	3.554E-26	
IV= 3	4.870E-01	8.378E-01	-5.625E-06	-1.407E+00	-2.271E+00	-3.027E+00	-3.347E+00	1.616E-26	
IV= 2	-1.675E+00	-3.324E+00	-6.182E+00	-4.540E+00	-3.230E+00	-3.123E+00	-3.184E+00	4.847E-26	
IV= 1	-2.448E+00	-3.612E+00	-4.613E+00	-2.836E+00	-2.009E+00	-2.672E+00	-2.953E+00	4.847E-26	
IX=	1	2	3	4	5	6	7	8	
FIELD VALUES OF V1									
IV= 22	-7.386E-01	-7.269E-01	-7.038E-01	-6.670E-01	-6.109E-01	-5.080E-01	-3.787E-01	-2.502E-01	-2.005E-01
IV= 21	-6.321E-01	-5.553E-01	-3.889E-01	-1.013E-01	2.192E-01	4.569E-01	4.638E-01	3.582E-01	4.041E-01
IV= 20	-4.248E-01	-1.774E-01	1.335E-01	2.910E-01	2.714E-01	2.548E-01	2.220E-01	1.303E-01	2.259E-01
IV= 19	-2.766E-01	1.268E-01	1.765E-01	1.702E-01	1.589E-01	1.415E-01	1.190E-01	8.742E-02	2.263E-01
IV= 18	-2.118E-01	8.693E-02	1.053E-01	1.087E-01	1.132E-01	1.193E-01	1.202E-01	1.119E-01	2.928E-01
IV= 17	-1.927E-01	5.178E-02	7.970E-02	9.688E-02	1.114E-01	1.257E-01	1.328E-01	1.511E-01	3.197E-01
IV= 16	-1.857E-01	1.974E-02	6.152E-02	8.691E-02	1.075E-01	1.277E-01	1.413E-01	1.475E-01	3.413E-01
IV= 15	-1.895E-01	-1.111E-02	4.691E-02	7.602E-02	9.878E-02	1.216E-01	1.399E-01	1.552E-01	3.563E-01
IV= 14	-1.978E-01	-2.729E-02	4.114E-02	6.797E-02	9.012E-02	1.125E-01	1.321E-01	1.527E-01	3.608E-01
IV= 13	-2.046E-01	-5.619E-02	2.610E-02	5.110E-02	6.991E-02	8.888E-02	1.101E-01	1.398E-01	3.650E-01
IV= 12	-1.621E-01	-6.052E-02	2.705E-03	3.312E-02	4.096E-02	5.006E-02	6.569E-02	9.713E-02	3.654E-01
IV= 11	1.519E-08	2.116E-08	4.734E-08	5.345E-08	5.206E-08	2.317E-09	-2.239E-12	1.268E-09	3.677E-01
IV= 10	2.965E+00	2.919E+00	2.776E+00	2.429E+00	1.668E+00	5.318E-01	-1.496E+00	-4.233E+00	3.131E-01
IV= 9	-3.614E+00	-3.235E+00	-3.065E+00	-2.685E+00	-2.049E+00	-1.594E+00	-2.347E+00	-5.562E+00	2.791E-01
IV= 8	-1.775E+00	-1.724E+00	-1.770E+00	-1.893E+00	-1.741E+00	-1.624E+00	-2.701E+00	-5.591E+00	2.496E-01
IV= 7	4.503E-03	-1.770E-01	-4.820E-01	-1.124E+00	-1.255E+00	-1.322E+00	-2.736E+00	-4.974E+00	2.212E-01
IV= 6	1.276E+00	7.865E-01	1.856E-01	-1.162E+00	-1.170E+00	-1.103E+00	-2.530E+00	-3.994E+00	1.935E-01
IV= 5	3.330E-07	2.861E-7	-5.385E-07	-1.880E-00	-1.596E-00	-1.064E-00	-2.231E-00	-2.987E-00	1.689E-01
IV= 4	1.242E+00	9.827E-6	-1.825E-01	-2.663E+00	-1.809E+00	-1.151E+00	-1.820E+00	-1.922E+00	1.392E-01
IV= 3	1.131E+00	9.403E-01	4.181E-01	-5.545E+00	-2.886E+00	-1.450E+00	-1.348E+00	-1.071E+00	1.052E-01
IV= 2	-1.183E+00	-1.009E+00	-9.500E-01	-7.020E+00	-3.188E+00	-1.424E+00	-1.118E+00	-7.376E-01	8.919E-02
IV= 1	1.111E+00	5.053E-01	2.153E-01	-2.737E+00	-1.314E+00	-4.706E-01	-4.735E-01	-2.077E-01	4.447E-02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IV= 23	-2.776E+00	-2.700E+00	-2.547E+00	-2.506E+00	-1.998E+00	-1.548E+00	-1.015E+00	-4.470E-01	-5.003E-07

IV= 22	-3.914E-01	-3.306E-01	-2.064E-01	-2.300E-02	1.741E-01	3.658E-01	4.762E-01	4.820E-01	5.673E-01
IV= 21	-6.578E-08	-4.687E-08	-1.332E-08	5.066E-08	9.851E-08	7.508E-08	5.091E-08	2.762E-08	2.602E-01
IV= 20	-1.260E-10	-1.467E-11	-7.294E-12	3.191E-11	7.380E-11	9.747E-11	1.211E-10	-3.888E-09	1.686E-01
IV= 19	-3.147E-11	-3.658E-12	5.072E-12	8.020E-12	1.280E-11	1.705E-11	2.078E-11	-6.100E-09	1.433E-01
IV= 18	-4.499E-12	-1.028E-12	-7.764E-13	-8.073E-13	-8.658E-13	-5.930E-13	-1.367E-12	-2.056E-09	1.940E-01
IV= 17	-2.663E-12	-1.188E-12	-2.197E-12	-2.144E-12	-2.740E-12	-2.944E-12	-6.675E-12	-2.127E-09	2.181E-01
IV= 16	-2.355E-12	-1.381E-12	-2.418E-12	-2.538E-12	-3.508E-12	-3.970E-12	-5.891E-12	-2.100E-09	2.493E-01
IV= 15	-1.289E-12	-7.988E-13	-1.196E-12	-1.388E-12	-2.079E-12	-2.324E-12	-3.199E-12	-1.145E-09	2.828E-01
IV= 14	-2.304E-12	-1.371E-12	-1.874E-12	-2.555E-12	-4.234E-12	-4.916E-12	-6.570E-12	-2.231E-09	2.987E-01
IV= 13	-1.610E-12	-8.220E-13	-9.370E-13	-1.973E-12	-3.616E-12	-4.279E-12	-5.502E-12	-2.098E-09	3.351E-01
IV= 12	-5.274E-13	-3.635E-13	-5.410E-13	-9.315E-13	-2.624E-12	-3.528E-12	-4.852E-12	-2.323E-09	3.676E-01
IV= 11	3.763E-08	4.575E-08	8.348E-08	7.896E-08	5.630E-08	-4.011E-09	-6.940E-08	-6.102E-08	4.041E-01
IV= 10	4.404E-05	4.368E-05	5.356E-05	3.551E-05	2.484E-05	1.000E-05	1.675E-06	-3.860E-08	4.147E-01
IV= 9	3.356E+01	3.218E+01	2.851E+01	2.249E+01	1.453E+01	6.933E+00	1.586E+00	6.192E+01	4.188E+01
IV= 8	4.868E+01	4.604E+01	3.979E+01	3.084E+01	1.973E+01	9.515E+00	2.506E+00	4.215E+01	4.209E+01
IV= 7	6.756E+01	6.288E+01	5.127E+01	3.789E+01	2.303E+01	1.059E+01	2.695E+00	6.554E+02	4.217E+01
IV= 6	1.046E+02	9.566E+01	6.735E+01	4.368E+01	2.433E+01	1.048E+01	2.354E+00	-1.106E+01	4.217E+01
IV= 5	4.213E+02	3.922E+02	2.896E+02	4.494E+01	2.312E+01	9.484E+00	1.715E+00	-1.845E+01	4.209E+01
IV= 4	3.980E+02	3.867E+02	3.561E+02	6.159E+01	2.327E+01	8.305E+00	1.080E+00	-1.765E+01	4.190E+01
IV= 3	3.549E+02	3.353E+02	2.611E+02	5.695E+01	2.087E+01	6.976E+00	7.305E+01	-1.440E+01	4.157E+01
IV= 2	1.723E+02	1.458E+02	8.893E+01	4.042E+01	1.657E+01	4.847E+00	2.056E+01	-1.601E+01	4.146E+01
IV= 1	5.415E+01	4.755E+01	3.227E+01	1.999E+01	7.957E+00	1.272E+00	-1.965E+01	-1.539E+01	4.080E+01
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF KE									
IV= 23	6.255E-01	6.375E-01	6.794E-01	7.849E-01	9.623E-01	1.186E+00	1.258E+00	1.124E+00	1.067E+00
IV= 22	4.469E-01	4.508E-01	4.608E-01	4.636E-01	4.378E-01	3.740E-01	2.926E-01	2.098E-01	2.217E-01
IV= 21	2.120E-03	1.116E-03	2.024E-04	..079E-04	5.296E-04	1.051E-03	9.653E-04	5.398E-04	4.472E-02
IV= 20	1.008E-03	1.192E-05	2.361E-04	4.783E-04	4.341E-04	3.875E-04	3.071E-04	1.255E-04	2.884E-02
IV= 19	5.264E-04	1.242E-04	2.106E-04	2.253E-04	2.406E-04	2.490E-04	2.821E-04	1.326E-04	2.691E-02
IV= 18	3.777E-04	6.262E-05	1.244E-04	1.833E-04	2.431E-04	2.956E-04	3.124E-04	2.150E-04	2.732E-02
IV= 17	3.362E-06	2.634E-05	9.266E-05	1.664E-04	2.431E-04	3.148E-04	3.480E-04	2.636E-04	2.694E-02
IV= 16	3.305E-05	1.392E-05	7.624E-05	1.555E-04	2.409E-04	3.246E-04	3.731E-04	3.054E-04	2.608E-02
IV= 15	3.507E-04	2.010E-05	6.643E-05	1.415E-04	2.293E-04	3.183E-04	3.778E-04	3.253E-04	2.367E-02
IV= 14	3.734E-04	3.136E-05	5.165E-05	1.206E-04	2.030E-04	2.882E-04	3.518E-04	3.136E-04	2.139E-02
IV= 13	3.152E-04	4.159E-05	1.615E-05	7.082E-05	1.382E-04	2.160E-04	2.833E-04	2.603E-04	1.568E-02
IV= 12	6.522E-05	3.937E-05	2.028E-05	2.571E-06	4.226E-05	1.108E-04	1.633E-04	1.312E-04	8.549E-03
IV= 11	7.353E-02	1.383E-01	3.502E-01	6.384E-01	8.853E-01	9.590E-01	7.243E-01	1.171E-01	2.308E-03
IV= 10	2.741E-02	5.636E-02	1.495E-01	2.551E-01	3.068E-01	2.871E-01	2.040E-01	1.398E-01	2.163E-03
IV= 9	7.579E+02	7.067E+02	5.908E+02	4.349E+02	2.631E+02	1.303E+02	5.493E+01	1.664E+01	2.055E+03
IV= 8	1.076E+03	9.858E+02	7.933E+02	5.699E+02	3.899E+02	1.618E+02	6.567E+01	1.499E+01	1.959E+03
IV= 7	1.280E+03	1.143E+03	8.403E+02	6.095E+02	5.692E+02	1.674E+02	5.902E+01	1.104E+01	1.870E+03
IV= 6	4.046E+01	3.428E+01	1.792E+01	4.674E+02	3.540E+02	1.583E+02	4.602E+01	6.990E+02	1.793E+03
IV= 5	5.290E+02	4.627E+02	2.614E+02	8.140E+00	3.264E+02	1.435E+02	3.265E+01	3.694E+02	1.718E+03
IV= 4	6.281E+03	5.520E+03	3.829E+02	1.454E+01	3.896E+02	1.362E+02	2.449E+01	1.514E+02	1.639E+03
IV= 3	4.923E+03	4.573E+03	2.144E+02	1.274E+01	3.670E+02	1.187E+02	2.005E+01	6.149E+03	1.575E+03
IV= 2	3.381E+03	3.418E+03	2.517E+03	6.593E+02	2.991E+02	8.654E+01	1.435E+01	2.063E+03	1.529E+03
IV= 1	1.091E+01	8.584E+00	4.230E+00	1.774E+00	3.415E-01	4.250E-02	4.713E-02	7.659E-03	1.467E-03
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF EP									
IV= 23	2.465E-01	2.448E-01	2.529E-01	2.895E-01	3.626E-01	4.595E-01	4.697E-01	3.629E-01	2.979E-01
IV= 22	1.138E-01	1.146E-01	1.179E-01	1.202E-01	1.141E-01	9.556E-02	6.791E-02	4.009E-02	3.723E-02
IV= 21	8.796E-05	3.363E-05	2.596E-06	1.011E-06	1.099E-05	2.985E-05	2.704E-05	1.130E-05	3.477E-03
IV= 20	2.883E-05	3.714E-08	3.238E-06	9.430E-06	8.154E-06	6.876E-06	4.851E-06	1.268E-06	2.817E-03
IV= 19	1.009E-05	1.249E-06	2.756E-06	3.048E-06	3.363E-06	3.542E-06	3.188E-06	1.376E-06	3.654E-03
IV= 18	6.616E-06	4.468E-07	1.258E-06	2.243E-06	3.417E-06	4.582E-06	4.979E-06	2.841E-06	4.692E-03
IV= 17	5.556E-06	1.218E-07	8.014E-07	1.935E-06	3.417E-06	5.036E-06	5.852E-06	3.858E-06	4.939E-03
IV= 16	5.416E-06	4.679E-08	6.000E-07	1.747E-06	3.370E-06	5.272E-06	6.496E-06	4.811E-06	5.038E-03
IV= 15	5.920E-06	8.121E-08	4.880E-07	1.517E-06	3.131E-06	5.120E-06	6.620E-06	5.289E-06	4.664E-03
IV= 14	6.504E-06	1.583E-07	3.346E-07	1.194E-06	2.607E-06	4.411E-06	5.969E-06	5.005E-06	4.171E-03
IV= 13	5.045E-06	2.418E-07	5.850E-08	5.372E-07	1.465E-06	2.862E-06	4.299E-06	3.786E-06	3.021E-03
IV= 12	5.647E-07	2.648E-07	9.790E-08	1.000E-08	2.945E-07	1.251E-06	2.258E-06	1.612E-06	1.476E-03
IV= 11	2.405E-02	6.203E-02	2.501E-01	6.152E-01	1.005E+00	1.133E+00	7.435E-01	5.055E-02	1.599E-04
IV= 10	4.091E-03	1.206E-02	5.202E-02	1.161E-01	1.532E-01	1.387E-01	8.304E-02	5.949E-02	1.450E-04
IV= 9	1.458E+04	1.308E+04	9.854E+03	6.154E+03	2.868E+03	1.043E+03	3.332E+02	9.324E+02	1.343E+04
IV= 8	2.540E+04	2.214E+04	1.549E+04	9.125E+03	4.016E+03	1.331E+03	3.842E+02	7.971E+02	1.250E+04
IV= 7	3.960E+04	3.321E+04	2.004E+04	1.131E+04	4.795E+03	1.411E+03	3.178E+02	5.039E+02	1.166E+04
IV= 6	6.481E+02	5.054E+02	1.910E+02	9.290E+03	4.775E+03	1.325E+03	2.184E+02	2.538E+02	1.094E+04
IV= 5	2.518E+04	2.060E+04	8.467E+03	4.498E+01	4.394E+03	1.169E+03	1.209E+02	9.752E+03	1.027E+04

IV= 4	2.919E+05	2.572E+05	1.451E+04	1.074E+02	6.207E+03	1.169E+03	6.338E+01	2.560E-03	9.	-
IV= 3	2.817E+05	2.866E+05	6.083E+03	8.808E+01	5.644E+03	9.523E+02	3.990E+01	6.623E-04	9.008E-05	
IV= 2	2.626E+05	2.695E+05	1.739E+05	1.718E+04	3.841E+03	5.434E+02	1.828E+01	1.287E-04	8.620E-05	
IV= 1	4.841E+01	3.380E+01	1.170E+01	3.175E+00	2.682E-01	1.178E-02	1.375E-02	9.108E-04	8.103E-05	
IX= 1	2	3	4	5	6	7	8	9		
FIELD VALUES OF H1										
IV= 23	3.170E+05	3.166E+05	3.159E+05	3.147E+05	3.134E+05	3.115E+05	3.094E+05	3.072E+05	3.067E+05	
IV= 22	3.105E+05	3.102E+05	3.096E+05	3.082E+05	3.060E+05	3.031E+05	3.009E+05	2.993E+05	2.994E+05	
IV= 21	3.064E+05	3.056E+05	3.033E+05	2.986E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	
IV= 20	3.013E+05	2.996E+05	2.963E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	2.962E+05	
IV= 19	2.975E+05	2.963E+05	2.962E+05							
IV= 18	2.968E+05	2.967E+05	2.962E+05							
IV= 17	2.963E+05	2.962E+05								
IV= 16	2.962E+05									
IV= 15	2.962E+05									
IV= 14	2.962E+05									
IV= 13	2.962E+05									
IV= 12	2.962E+05									
IV= 11	3.045E+05	3.056E+05	3.079E+05	3.100E+05	3.115E+05	3.118E+05	3.118E+05	3.119E+05	3.119E+05	
IV= 10	3.235E+05	3.242E+05	3.252E+05	3.254E+05	3.264E+05	3.266E+05	3.266E+05	3.266E+05	3.266E+05	
IV= 9	3.463E+05	3.455E+05	3.431E+05	3.389E+05	3.329E+05	3.272E+05	3.234E+05	3.144E+05	2.962E+05	
IV= 8	3.790E+05	3.749E+05	3.656E+05	3.537E+05	3.404E+05	3.293E+05	3.228E+05	3.114E+05	2.962E+05	
IV= 7	4.279E+05	4.178E+05	3.948E+05	3.709E+05	3.478E+05	3.300E+05	3.198E+05	3.078E+05	2.961E+05	
IV= 6	5.203E+05	4.963E+05	4.328E+05	3.849E+05	3.529E+05	3.292E+05	3.155E+05	3.046E+05	2.962E+05	
IV= 5	8.448E+05	8.167E+05	6.946E+05	4.002E+05	3.555E+05	3.271E+05	3.102E+05	3.013E+05	2.962E+05	
IV= 4	8.180E+05	8.100E+05	7.968E+05	4.340E+05	3.603E+05	3.248E+05	3.052E+05	2.985E+05	2.962E+05	
IV= 3	7.775E+05	7.569E+05	6.795E+05	4.293E+05	3.570E+05	3.214E+05	3.028E+05	2.973E+05	2.962E+05	
IV= 2	6.317E+05	5.828E+05	4.820E+05	3.986E+05	3.492E+05	3.155E+05	3.003E+05	2.964E+05	2.962E+05	
IV= 1	4.352E+05	4.282E+05	3.971E+05	3.662E+05	3.302E+05	3.029E+05	2.972E+05	2.962E+05	2.962E+05	
IX= 1	2	3	4	5	6	7	8	9		
FIELD VALUES OF VIST										
IV= 23	1.428E-01	1.494E-01	1.643E-01	1.915E-01	2.299E-01	2.756E-01	3.032E-01	3.135E-01	3.440E-01	
IV= 22	1.579E-01	1.596E-01	1.620E-01	1.609E-01	1.512E-01	1.317E-01	1.135E-01	9.881E-02	1.189E-01	
IV= 21	4.597E-03	3.336E-03	1.420E-03	1.037E-03	2.298E-03	3.206E-03	3.102E-03	2.320E-03	5.177E-02	
IV= 20	3.169E-03	3.448E-04	1.527E-03	2.184E-03	2.080E-03	1.965E-03	1.750E-03	1.119E-03	2.658E-02	
IV= 19	2.291E-03	1.113E-03	1.449E-03	1.499E-03	1.549E-03	1.576E-03	1.521E-03	1.150E-03	1.784E-02	
IV= 18	1.940E-03	7.902E-04	1.116E-03	1.352E-03	1.557E-03	1.717E-03	1.765E-03	1.464E-03	1.432E-02	
IV= 17	1.831E-03	5.104E-04	9.600E-04	1.288E-03	1.557E-03	1.772E-03	1.863E-03	1.621E-03	1.322E-02	
IV= 16	1.815E-03	3.725E-04	8.718E-04	1.245E-03	1.550E-03	1.799E-03	1.929E-03	1.745E-03	1.215E-02	
IV= 15	1.870E-03	4.476E-04	8.138E-04	1.188E-03	1.512E-03	1.781E-03	1.941E-03	1.801E-03	1.082E-02	
IV= 14	1.929E-03	5.591E-04	7.176E-04	1.097E-03	1.423E-03	1.695E-03	1.873E-03	1.768E-03	9.871E-03	
IV= 13	1.773E-03	6.439E-04	4.012E-04	8.402E-04	1.174E-03	1.467E-03	1.681E-03	1.611E-03	7.329E-03	
IV= 12	6.781E-04	5.269E-04	3.781E-04	5.951E-05	5.458E-04	8.839E-04	1.073E-03	9.619E-04	4.458E-03	
IV= 11	2.024E-02	2.775E-02	4.417E-02	5.962E-02	7.021E-02	7.308E-02	6.351E-02	2.440E-02	2.999E-03	
IV= 10	1.653E-02	2.370E-02	3.858E-02	5.042E-02	5.530E-02	5.350E-02	4.509E-02	2.959E-02	2.903E-03	
IV= 9	3.545E+00	3.436E+00	3.188E+00	2.766E+00	2.172E+00	1.465E+00	8.150E-01	2.673E-02	2.830E-03	
IV= 8	4.103E+00	3.951E+00	3.647E+00	3.203E+00	2.588E+00	1.772E+00	1.010E+00	2.537E-02	2.763E-03	
IV= 7	3.725E+00	3.538E+00	3.171E+00	2.954E+00	2.560E+00	1.787E+00	9.866E-01	2.178E-02	2.700E-03	
IV= 6	2.274E-01	2.093E-01	1.513E-01	2.117E+00	2.362E+00	1.701E+00	8.728E-01	1.733E-02	2.643E-03	
IV= 5	1.000E+00	9.355E-01	7.264E-01	1.326E-01	2.182E+00	1.587E+00	7.941E-01	1.260E-02	2.588E-03	
IV= 4	1.255E+01	1.070E+01	9.093E-01	1.772E-01	2.201E+00	1.429E+00	8.513E-01	8.064E-03	2.527E-03	
IV= 3	7.743E+00	6.564E+00	6.805E-01	1.659E-01	2.148E+00	1.331E+00	9.065E-01	5.139E-03	2.477E-03	
IV= 2	3.918E+00	3.902E+00	3.280E+00	2.278E+00	2.096E+00	1.240E+00	1.015E+00	2.976E-03	2.441E-03	
IV= 1	2.211E-01	1.962E-01	1.377E-01	8.918E-02	3.913E-02	1.380E-02	1.454E-02	5.797E-03	2.392E-03	
IX= 1	2	3	4	5	6	7	8	9		
FIELD VALUES OF TMP1										
IV= 23	3.157E+02	3.154E+02	3.146E+02	3.155E+02	3.121E+02	3.102E+02	3.082E+02	3.060E+02	3.055E+02	
IV= 22	3.093E+02	3.090E+02	3.084E+02	3.070E+02	3.047E+02	3.019E+02	2.997E+02	2.981E+02	2.982E+02	
IV= 21	3.052E+02	3.044E+02	3.021E+02	2.974E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	
IV= 20	3.001E+02	2.984E+02	2.951E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	2.950E+02	
IV= 19	2.963E+02	2.951E+02	2.950E+02							
IV= 18	2.956E+02	2.950E+02								
IV= 17	2.952E+02	2.950E+02								
IV= 16	2.951E+02	2.950E+02								
IV= 15	2.950E+02									
IV= 14	2.950E+02									
IV= 13	2.950E+02									
IV= 12	2.950E+02									

IY= 11	3.033E+02	3.044E+02	3.067E+02	3.088E+02	3.102E+02	3.106E+02	3.106E+02	3.106E+02	2.950E+02
IY= 10	3.022E+02	3.039E+02	3.059E+02	3.241E+02	3.233E+02	3.220E+02	3.193E+02	3.144E+02	2.950E+02
IY= 9	3.444E+02	3.441E+02	3.417E+02	3.376E+02	3.316E+02	3.259E+02	3.222E+02	3.131E+02	2.950E+02
IY= 8	3.775E+02	3.734E+02	3.642E+02	3.523E+02	3.390E+02	3.280E+02	3.215E+02	3.101E+02	2.950E+02
IY= 7	4.262E+02	4.161E+02	3.932E+02	3.694E+02	3.465E+02	3.287E+02	3.185E+02	3.066E+02	2.950E+02
IY= 6	5.182E+02	4.943E+02	4.811E+02	3.832E+02	3.515E+02	3.279E+02	3.142E+02	3.034E+02	2.950E+02
IY= 5	8.415E+02	8.134E+02	6.918E+02	3.986E+02	3.541E+02	3.258E+02	3.089E+02	3.001E+02	2.950E+02
IY= 4	8.147E+02	8.067E+02	7.936E+02	4.325E+02	3.588E+02	3.235E+02	3.040E+02	2.975E+02	2.950E+02
IY= 3	7.744E+02	7.539E+02	6.768E+02	4.276E+02	3.556E+02	3.201E+02	3.016E+02	2.961E+02	2.950E+02
IY= 2	6.292E+02	5.805E+02	4.801E+02	3.971E+02	3.478E+02	3.142E+02	2.991E+02	2.952E+02	2.950E+02
IY= 1	4.334E+02	4.265E+02	3.955E+02	3.648E+02	3.289E+02	3.017E+02	2.961E+02	2.950E+02	2.950E+02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IY= 23	1.122E+00	1.123E+00	1.126E+00	1.130E+00	1.135E+00	1.142E+00	1.150E+00	1.158E+00	1.160E+00
IY= 22	1.145E+00	1.146E+00	1.149E+00	1.154E+00	1.163E+00	1.174E+00	1.182E+00	1.189E+00	1.188E+00
IY= 21	1.161E+00	1.164E+00	1.173E+00	1.191E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00	1.201E+00
IY= 20	1.180E+00	1.187E+00	1.201E+00						
IY= 19	1.196E+00	1.200E+00	1.201E+00						
IY= 18	1.199E+00	1.201E+00							
IY= 17	1.200E+00	1.201E+00							
IY= 16	1.201E+00								
IY= 15	1.201E+00								
IY= 14	1.201E+00								
IY= 13	1.201E+00								
IY= 12	1.201E+00								
IY= 11	1.170E+00	1.166E+00	1.157E+00	1.148E+00	1.142E+00	1.140E+00	1.140E+00	1.141E+00	1.201E+00
IY= 10	1.101E+00	1.099E+00	1.095E+00	1.094E+00	1.096E+00	1.100E+00	1.109E+00	1.127E+00	1.201E+00
IY= 9	1.028E+00	1.031E+00	1.038E+00	1.050E+00	1.068E+00	1.087E+00	1.099E+00	1.131E+00	1.201E+00
IY= 8	9.393E-01	9.495E-01	9.733E-01	1.006E+00	1.045E+00	1.080E+00	1.101E+00	1.142E+00	1.201E+00
IY= 7	8.318E-01	8.520E-01	9.013E-01	9.590E-01	1.022E+00	1.077E+00	1.112E+00	1.155E+00	1.201E+00
IY= 6	6.843E-01	7.172E-01	8.221E-01	9.239E-01	1.007E+00	1.080E+00	1.127E+00	1.167E+00	1.201E+00
IY= 5	4.198E-01	4.342E-01	5.105E-01	8.884E-01	1.000E+00	1.087E+00	1.146E+00	1.180E+00	1.201E+00
IY= 4	4.238E-01	4.581E-01	4.453E-01	8.192E-01	9.870E-01	1.095E+00	1.165E+00	1.191E+00	1.201E+00
IY= 3	4.570E-01	4.693E-01	5.225E-01	8.282E-01	9.959E-01	1.106E+00	1.174E+00	1.196E+00	1.201E+00
IY= 2	5.625E-01	6.097E-01	7.372E-01	8.916E-01	1.018E+00	1.127E+00	1.184E+00	1.200E+00	1.201E+00
IY= 1	8.167E-01	8.301E-01	8.952E-01	9.708E-01	1.077E+00	1.174E+00	1.196E+00	1.200E+00	1.201E+00
IX= 1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZSLAB NO= 37 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 37, ISWEEP= 70, ISTEP= 1									
FIELD VALUES OF P1									
IY= 23	-3.618E-01	-4.690E-01	-5.820E-01	-7.601E-01	-9.631E-01	-1.117E+00	-1.182E+00	-1.159E+00	-1.368E+00
IY= 22	-1.973E+00	-2.050E+00	-2.090E+00	-2.123E+00	-2.140E+00	-2.098E+00	-1.982E+00	-1.727E+00	-1.653E+00
IY= 21	-3.075E+00	-3.145E+00	-3.153E+00	-3.159E+00	-3.173E+00	-3.101E+00	-2.983E+00	-2.874E+00	-1.067E+00
IY= 20	-4.842E+00	-4.933E+00	-4.938E+00	-4.968E+00	-4.960E+00	-4.759E+00	-4.653E+00	-4.084E+00	-9.572E-01
IY= 19	-7.501E+00	-7.616E+00	-7.703E+00	-7.834E+00	-7.829E+00	-7.455E+00	-6.829E+00	-6.032E+00	-8.912E-01
IY= 18	-1.097E+01	-1.108E+01	-1.115E+01	-1.122E+01	-1.108E+01	-1.046E+01	-9.533E+00	-8.172E+00	-8.617E-01
IY= 17	-1.270E+01	-1.282E+01	-1.293E+01	-1.304E+01	-1.283E+01	-1.208E+01	-1.102E+01	-9.428E+00	-8.421E-01
IY= 16	-1.508E+01	-1.521E+01	-1.534E+01	-1.540E+01	-1.503E+01	-1.599E+01	-1.274E+01	-1.081E+01	-8.223E-01
IY= 15	-1.802E+01	-1.812E+01	-1.818E+01	-1.806E+01	-1.737E+01	-1.594E+01	-1.440E+01	-1.201E+01	-8.098E-01
IY= 14	-1.920E+01	-1.953E+01	-1.954E+01	-1.976E+01	-1.948E+01	-1.799E+01	-1.626E+01	-1.347E+01	-7.893E-01
IY= 13	-1.957E+01	-1.985E+01	-2.042E+01	-2.118E+01	-2.178E+01	-2.129E+01	-1.928E+01	-1.561E+01	-7.688E-01
IY= 12	-2.716E+01	-2.603E+01	-2.590E+01	-2.626E+01	-2.693E+01	-2.502E+01	-2.256E+01	-1.778E+01	-7.506E-01
IY= 11	-2.110E+01	-2.134E+01	-2.155E+01	-2.015E+01	-2.758E+01	-2.868E+01	-2.579E+01	-1.953E+01	-7.376E-01
IY= 10	-2.790E+00	2.046E+01	1.187E+01	-2.910E+01	-2.153E+01	-2.675E+01	-2.646E+01	-2.055E+01	-7.292E-01
IY= 9	9.468E+01	1.145E+02	8.751E+01	1.207E+01	-2.465E+01	-2.539E+01	-2.622E+01	-2.161E+01	-7.220E-01
IY= 8	1.044E+03	9.951E+02	7.409E+02	-5.793E+01	-5.543E+01	-2.904E+01	-2.826E+01	-2.265E+01	-7.155E-01
IY= 7	1.130E+03	1.070E+03	7.647E+02	-2.313E+02	-1.022E+02	-4.087E+01	-3.302E+01	-2.470E+01	-7.097E-01
IY= 6	-4.583E+03	-4.353E+03	-4.061E+03	-5.766E+02	-1.733E+02	-6.302E+01	-5.996E+01	-2.781E+01	-7.051E-01
IY= 5	-3.997E+03	-3.493E+03	-2.280E+03	-6.120E+02	-2.013E+02	-7.487E+01	-4.641E+01	-3.137E+01	-7.003E-01
IY= 4	-1.651E+03	-1.451E+03	-8.113E+02	-8.128E+02	-1.384E+02	-6.936E+01	-6.958E+01	-3.420E+01	-6.959E-01
IY= 3	-6.001E+02	-5.272E+02	-3.137E+02	-1.894E+02	-1.009E+02	-6.154E+01	-4.991E+01	-3.515E+01	-6.943E-01
IY= 2	-1.701E+02	-1.775E+02	-1.446E+02	-1.035E+02	-7.168E+01	-5.572E+01	-5.032E+01	-3.657E+01	-6.910E-01
IY= 1	-8.131E+01	-8.153E+01	-7.978E+01	-6.668E+01	-5.785E+01	-5.280E+01	-5.016E+01	-3.712E+01	-6.911E-01

IX*	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF U1										
IY*	23	-1.025E-01	-1.957E-01	-3.053E-01	-3.673E-01	-3.801E-01	-3.051E-01	-1.519E-01	8.181E-02	
IY*	22	-1.069E-01	-2.112E-01	-3.562E-01	-4.754E-01	-5.789E-01	-5.940E-01	-5.225E-01	-2.399E-01	
IY*	21	-1.154E-01	-2.224E-01	-3.707E-01	-4.923E-01	-5.769E-01	-5.082E-01	-3.209E-01	-2.813E-01	
IY*	20	-1.640E-01	-3.146E-01	-5.226E-01	-6.897E-01	-8.049E-01	-7.661E-01	-5.692E-01	-9.864E-17	
IY*	19	-1.725E-01	-3.292E-01	-5.569E-01	-7.377E-01	-8.783E-01	-9.137E-01	-7.737E-01	1.513E-17	
IY*	18	-1.858E-01	-3.518E-01	-5.926E-01	-7.807E-01	-9.553E-01	-1.012E+00	-9.375E-01	1.013E-17	
IY*	17	-1.946E-01	-3.629E-01	-6.072E-01	-8.025E-01	-9.918E-01	-1.110E+00	-1.044E+00	1.344E-17	
IY*	16	-2.080E-01	-3.771E-01	-6.357E-01	-8.655E-01	-1.129E+00	-1.288E+00	-1.189E+00	7.059E-14	
IY*	15	-2.281E-01	-4.160E-01	-7.094E-01	-9.816E-01	-1.293E+00	-1.442E+00	-1.326E+00	6.210E-13	
IY*	14	-2.723E-01	-6.955E-01	-8.638E-01	-1.253E+00	-1.688E+00	-1.807E+00	-1.525E+00	2.950E-12	
IY*	13	-1.472E-01	-2.240E-01	-5.115E-01	-1.127E-00	-1.870E-00	-2.145E-00	-1.762E+00	2.159E-12	
IY*	12	2.219E-01	4.606E-01	2.731E-01	-8.472E-01	-2.028E-00	-2.428E-00	-2.031E+00	3.300E-12	
IY*	11	1.576E+00	2.894E+00	3.913E+00	2.735E+00	-1.177E-01	-2.317E+00	-2.302E+00	6.237E-12	
IY*	10	3.842E+00	7.021E+00	1.040E+01	8.467E+00	3.900E+00	2.154E-01	-1.955E+00	7.917E-12	
IY*	9	6.439E+00	1.221E+01	1.920E+01	1.453E+01	7.518E+00	2.439E+00	-8.398E-01	1.576E-09	
IY*	8	9.406E+00	1.859E+01	3.261E+01	2.081E+01	9.985E+00	3.523E+00	-2.416E-01	5.023E-09	
IY*	7	1.138E+01	2.241E+01	3.929E+01	2.254E+01	9.499E+00	2.868E+00	-5.817E-01	4.317E-09	
IY*	6	-1.642E+01	-2.166E+01	-7.255E-05	2.688E+00	2.359E+00	2.197E-01	-1.622E+00	3.266E-10	
IY*	5	-7.296E+00	-1.759E+01	-3.282E+01	-1.117E+01	-3.952E+00	-2.659E+00	-2.797E+00	1.769E-15	
IY*	4	-3.570E+00	-7.384E+00	-9.477E+00	-8.730E+00	-5.702E+00	-4.190E+00	-3.424E+00	1.895E-15	
IY*	3	-2.006E+00	-3.283E+00	-3.989E+00	-6.880E+00	-5.504E+00	-4.339E+00	-3.529E+00	9.388E-16	
IY*	2	-2.459E+00	-4.164E+00	-6.320E+00	-6.152E+00	-5.062E+00	-4.246E+00	-3.476E+00	2.694E-15	
IY*	1	-2.912E+00	-4.633E+00	-6.001E+00	-4.820E+00	-4.183E+00	-3.821E+00	-3.349E+00	1.236E-14	
IX*	1	2	3	4	5	6	7	8		
FIELD VALUES OF V1										
IY*	22	-4.365E-01	-3.874E-01	-2.959E-01	-1.946E-01	-1.609E-01	-2.227E-01	-3.227E-01	-3.561E-01	-4.054E-01
IY*	21	-1.238E+00	-1.199E+00	-1.116E+00	-9.768E-01	-8.117E-01	-6.274E-01	-4.204E-01	-1.554E-01	5.244E-01
IY*	20	-2.005E+00	-1.944E+00	-1.794E+00	-1.466E+00	-1.095E+00	-6.143E-01	-2.592E-01	-3.007E-01	5.466E-01
IY*	19	-2.797E+00	-2.704E+00	-2.465E+00	-2.004E+00	-1.502E+00	-8.189E-01	-3.244E-01	-3.273E-01	5.258E-01
IY*	18	-3.639E+00	-3.528E+00	-3.241E+00	-2.750E+00	-2.204E+00	-1.471E+00	-9.064E-01	-6.461E-01	5.063E-01
IY*	17	-3.987E+00	-3.871E+00	-3.570E+00	-3.069E+00	-2.488E+00	-1.726E+00	-1.169E+00	-8.151E-01	4.944E-01
IY*	16	-4.420E+00	-4.297E+00	-3.979E+00	-3.444E+00	-2.809E+00	-2.020E+00	-1.454E+00	-9.704E-01	4.782E-01
IY*	15	-4.909E+00	-4.775E+00	-4.433E+00	-3.849E+00	-3.156E+00	-2.339E+00	-1.719E+00	-1.074E+00	4.576E-01
IY*	14	-5.062E+00	-4.909E+00	-4.544E+00	-3.972E+00	-3.319E+00	-2.520E+00	-1.875E+00	-1.136E+00	4.430E-01
IY*	13	-5.115E+00	-4.915E+00	-4.512E+00	-3.941E+00	-3.439E+00	-2.785E+00	-2.076E+00	-1.181E+00	4.112E-01
IY*	12	-5.011E+00	-4.585E+00	-4.349E+00	-4.574E+00	-3.753E+00	-2.931E+00	-2.132E+00	-1.132E+00	3.736E-01
IY*	11	4.978E+00	5.371E+00	4.497E+00	1.166E+00	-2.153E+00	-2.929E+00	-2.043E+00	-9.721E-01	3.313E-01
IY*	10	1.683E+01	1.680E+01	1.463E+01	8.526E+00	2.102E+00	-1.020E+00	-1.548E+00	-7.611E-01	2.941E-01
IY*	9	2.775E+01	2.699E+01	2.332E+01	1.320E+01	4.092E+00	-2.063E+01	-1.352E+00	-7.708E-01	2.665E-01
IY*	8	3.628E+01	3.484E+01	2.986E+01	1.429E+01	3.951E+00	-5.038E+01	-1.859E+00	-9.633E-01	2.406E-01
IY*	7	1.620E+01	1.525E+01	1.248E+01	5.320E+00	6.892E-01	-1.773E+00	-2.633E+00	-1.439E+00	2.146E-01
IY*	6	1.767E-06	1.927E-06	2.933E-06	-1.010E+01	-4.843E+00	-3.526E+00	-3.350E+00	-1.824E+00	1.884E-01
IY*	5	5.908E+01	6.347E+01	6.538E+01	-6.218E+00	-4.359E+00	-3.563E+00	-3.467E+00	-1.858E+00	1.648E-01
IY*	4	3.645E+01	3.439E+01	2.755E+01	8.014E+00	-1.858E+01	-2.123E+00	-2.798E+00	-1.487E+00	1.361E-01
IY*	3	2.092E+01	1.945E+01	1.445E+01	1.924E+00	3.728E-01	-1.058E+00	-1.828E+00	-9.060E-01	1.031E-01
IY*	2	1.227E+01	1.104E+01	7.155E+00	4.903E-01	1.616E-01	-7.986E-01	-1.418E+00	-6.540E-01	8.749E-02
IY*	1	4.096E+00	3.923E+00	2.805E+00	-1.142E+01	3.413E-02	-3.929E+01	-4.558E+01	-2.074E+01	4.374E-02
IX*	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										
IY*	23	-2.769E+00	-2.694E+00	-2.574E+00	-2.431E+00	-2.296E+00	-2.106E+00	-1.721E+00	-9.520E-01	-6.509E-07
IY*	22	-2.500E+01	-1.760E+01	-4.556E+02	1.223E-01	2.683E-01	3.076E-01	3.178E-01	3.061E-01	4.281E-01
IY*	21	-8.598E-02	-6.097E-02	-9.768E-03	1.073E-02	-1.090E+01	-3.703E-01	-5.982E-01	-4.478E-01	2.443E-01
IY*	20	1.898E-01	1.856E-01	1.761E-01	5.137E-02	-1.902E+01	-5.370E-01	-7.983E-01	-6.253E-01	1.653E-01
IY*	19	3.793E-01	3.467E-01	2.766E-01	3.185E-02	-3.179E+01	-7.660E-01	-1.110E+00	-8.865E-01	1.575E-01
IY*	18	3.756E-01	3.309E-01	2.375E-01	-3.518E-02	-3.905E+01	-8.137E+01	-1.134E+00	-9.156E-01	1.963E-01
IY*	17	3.829E-01	3.231E-01	2.068E-01	-6.968E-02	-4.192E+01	-8.352E+01	-1.138E+00	-8.704E+01	2.076E+01
IY*	16	4.819E-01	3.977E-01	2.665E-01	-1.237E-02	-3.716E+01	-8.247E+01	-1.123E+00	-8.029E+01	2.214E+01
IY*	15	7.930E-01	7.095E-01	5.705E-01	2.516E-01	-2.508E+01	-8.015E+01	-1.137E+00	-8.096E+01	2.360E+01
IY*	14	1.151E+00	1.039E+00	8.850E-01	6.078E-01	8.572E-02	-6.926E+01	-1.116E+00	-7.738E+01	2.427E+01
IY*	13	6.512E-01	6.001E-01	4.993E-01	1.931E-01	1.426E-01	-3.503E+01	-9.533E+01	-6.727E+01	2.578E+01
IY*	12	7.491E+00	7.330E+00	6.743E+00	4.714E+00	1.941E+00	1.648E-02	-6.777E+01	-5.934E+01	2.694E+01
IY*	11	1.983E+01	1.942E+01	1.807E+01	1.489E+01	9.220E+00	3.594E+00	1.373E+01	-5.943E+01	2.775E+01
IY*	10	3.287E+01	3.239E+01	3.040E+01	2.783E+01	1.949E+01	1.024E+01	3.437E+00	-4.877E+01	2.822E+01
IY*	9	3.573E+01	3.529E+01	3.513E+01	3.664E+01	2.795E+01	1.601E+01	6.900E+00	5.096E+01	2.846E+01
IY*	8	6.584E-07	6.231E-07	9.915E-07	3.822E+01	3.388E+01	2.015E+01	9.389E+00	1.560E+00	2.862E+01
IY*	7	2.671E-07	3.575E-07	9.141E-07	3.954E+01	3.725E+01	2.192E+01	1.008E+01	1.753E+00	2.871E+01

IV=	6	1.657E+02	1.528E+02	1.136E+02	4.360E+01	3.465E+01	1.998E+01	9.345E+00	1.186E+00	2.875E-01
IV=	5	4.086E+02	3.723E+02	2.450E+02	4.363E+01	2.765E+01	1.564E+01	6.979E+00	6.653E-01	2.870E-01
IV=	4	3.676E+02	3.579E+02	3.226E+02	5.026E+01	2.192E+01	1.106E+01	4.131E+00	4.110E-01	2.858E-01
IV=	3	2.896E+02	2.702E+02	2.047E+02	5.399E+01	1.939E+01	8.652E+00	2.955E+00	3.014E-01	2.835E-01
IV=	2	1.705E+02	1.480E+02	1.002E+02	4.614E+01	1.694E+01	6.123E+00	1.498E+00	2.295E-01	2.827E-01
IV=	1	6.723E+01	5.399E+01	3.531E+01	1.884E+01	7.901E+00	2.803E+00	7.668E-01	1.757E-01	2.765E-01
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IV=	23	7.460E-01	7.447E-01	7.456E-01	7.895E-01	9.431E-01	1.341E+00	1.908E+00	2.259E+00	2.326E+00
IV=	22	4.750E-01	4.538E-01	4.216E-01	3.833E-01	3.714E-01	3.990E-01	4.328E-01	4.405E-01	5.143E-01
IV=	21	4.100E-01	3.852E-01	3.443E-01	2.699E-01	1.973E-01	1.397E-01	8.792E-02	2.088E-03	2.802E-03
IV=	20	4.141E-01	3.781E-01	3.155E-01	2.219E-01	1.894E-01	1.839E-01	1.299E-01	3.787E-03	2.571E-03
IV=	19	4.339E-01	3.870E-01	3.269E-01	3.194E-01	4.159E-01	5.161E-01	3.582E-01	7.358E-03	2.396E-03
IV=	18	4.491E-01	3.980E-01	3.421E-01	3.823E-01	5.718E-01	8.099E-01	6.537E-01	9.597E-03	2.379E-03
IV=	17	4.768E-01	4.244E-01	3.917E-01	5.526E-01	9.036E-01	1.198E+00	8.239E-01	1.075E-02	2.311E-03
IV=	16	5.259E-01	4.911E-01	5.267E-01	9.153E-01	1.437E+00	1.593E+00	9.167E-01	1.158E-02	2.224E-03
IV=	15	5.387E-01	5.003E-01	5.690E-01	1.135E+00	1.776E+00	1.822E+00	9.521E-01	1.274E-02	2.154E-03
IV=	14	5.785E-01	5.377E-01	6.934E-01	1.377E+00	2.179E+00	2.058E+00	9.736E-01	1.314E-02	2.025E-03
IV=	13	3.243E+00	3.784E+00	4.452E+00	4.716E+00	2.995E+00	2.035E+00	1.029E+00	1.221E-02	1.868E-03
IV=	12	7.192E+01	7.209E+01	6.464E+01	4.045E+01	1.503E+01	3.962E+00	1.016E+00	1.014E-02	1.687E-03
IV=	11	2.216E+02	2.129E+02	1.982E+02	1.657E+02	9.697E+01	2.838E+01	3.174E+00	7.885E-03	1.517E-03
IV=	10	3.292E+02	3.170E+02	3.013E+02	2.997E+02	2.126E+02	1.034E+02	2.904E+01	6.057E-03	1.387E-03
IV=	9	2.913E+02	2.825E+02	2.747E+02	3.590E+02	2.998E+02	1.666E+02	6.492E+01	7.285E-03	1.286E-03
IV=	8	3.448E+00	3.636E+00	4.767E+00	2.751E+02	3.168E+02	2.023E+02	8.876E+01	2.462E-02	1.194E-03
IV=	7	8.141E-01	1.496E+00	4.231E+00	2.222E+02	3.091E+02	2.114E+02	9.673E+01	3.515E-02	1.108E-03
IV=	6	9.601E+01	8.297E+01	4.826E+01	7.929E+00	3.007E+02	1.977E+02	8.862E+01	2.987E-02	1.033E-03
IV=	5	1.870E+02	1.706E+03	1.084E+03	4.005E+02	3.185E+02	1.662E+02	6.613E+01	2.092E-02	9.617E-04
IV=	4	5.840E+03	5.010E+03	1.267E+03	6.370E+02	3.292E+02	1.299E+02	3.840E+01	1.104E-02	8.878E-04
IV=	3	6.568E+03	6.108E+03	2.243E+03	7.421E+02	3.204E+02	1.094E+02	2.560E+01	5.221E-03	8.340E-04
IV=	2	5.448E+03	5.169E+03	3.669E+03	1.057E+03	3.045E+02	8.422E+01	8.734E+00	1.982E-03	7.903E-04
IV=	1	1.630E+01	1.087E+01	5.027E+00	1.657E+00	4.023E-01	1.287E-01	7.611E-02	9.570E-03	7.410E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IV=	23	3.798E-01	3.659E-01	3.491E-01	3.678E-01	4.557E-01	6.994E-01	1.082E+00	1.256E+00	1.120E+00
IV=	22	1.285E-01	1.187E-01	1.060E-01	9.562E-02	9.932E-02	1.182E-01	1.400E-01	1.463E-01	1.635E-01
IV=	21	1.004E-01	9.230E-02	8.168E-02	6.575E-02	5.533E-02	4.835E-02	3.782E-02	1.311E-04	2.138E-04
IV=	20	1.072E-01	9.800E-02	8.805E-02	8.035E-02	9.125E-02	1.148E-01	9.220E-02	3.200E-04	1.879E-04
IV=	19	1.264E-01	1.178E-01	1.274E-01	1.821E-01	3.000E-01	4.351E-01	3.240E-01	8.670E-04	1.691E-04
IV=	18	1.164E-01	1.280E-01	1.488E-01	2.525E-01	4.828E-01	7.857E-01	6.619E-01	1.291E-03	1.673E-04
IV=	17	1.523E-01	1.471E-01	2.035E-01	4.447E-01	8.679E-01	1.282E+00	9.008E-01	1.530E-03	1.601E-04
IV=	16	1.750E-01	1.859E-01	3.669E-01	9.692E-01	1.613E+00	1.826E+00	1.051E+00	1.712E-03	1.512E-04
IV=	15	1.865E-01	2.055E-01	4.313E-01	1.275E+00	2.169E+00	2.189E+00	1.125E+00	1.975E-03	1.441E-04
IV=	14	2.240E-01	2.648E-01	5.756E-01	1.468E+00	2.757E+00	2.710E+00	1.216E+00	2.069E-03	1.314E-04
IV=	13	9.301E+00	1.203E+01	1.457E+01	1.366E+01	4.862E+00	2.898E+00	1.525E+00	1.854E-03	1.163E-04
IV=	12	7.727E+02	7.609E+02	6.384E+02	3.061E+02	3.769E+01	9.011E+00	1.724E+00	1.403E-03	9.987E-05
IV=	11	2.961E+03	2.763E+03	2.423E+03	1.833E+03	8.213E+02	1.502E+02	7.559E+00	9.616E-04	8.516E-05
IV=	10	5.103E+03	4.772E+03	4.268E+03	3.882E+03	2.283E+03	8.054E+02	1.401E+02	6.474E-04	7.450E-05
IV=	9	4.929E+03	4.645E+03	4.233E+03	5.137E+03	3.615E+03	1.546E+03	4.112E+02	8.540E-04	6.647E-05
IV=	8	1.475E+01	1.597E+01	2.397E+01	4.291E+03	4.077E+03	2.011E+03	6.135E+02	5.307E-03	5.946E-05
IV=	7	1.679E+00	4.183E+00	1.989E+01	3.860E+03	4.216E+03	2.155E+03	6.784E+02	9.051E-03	5.317E-05
IV=	6	2.369E+03	1.902E+03	7.468E+02	4.324E+01	3.840E+03	1.848E+03	5.755E+02	7.090E-03	4.786E-05
IV=	5	1.072E+05	1.038E+05	8.832E+04	2.457E+04	3.848E+03	1.320E+03	5.510E+02	4.155E-03	4.300E-05
IV=	4	2.874E+05	2.521E+05	6.968E+04	4.730E+04	4.111E+03	8.384E+02	1.478E+02	1.592E-03	3.813E-05
IV=	3	4.197E+05	4.208E+05	1.546E+05	3.282E+04	3.904E+03	6.182E+02	8.439E+01	5.181E-04	3.672E-05
IV=	2	3.726E+05	3.573E+05	2.295E+05	3.522E+04	3.774E+03	5.904E+02	2.211E+01	1.212E-04	3.203E-05
IV=	1	8.846E+01	4.820E+01	1.515E+01	2.866E+00	3.430E+01	6.206E-02	2.822E-02	1.272E-03	2.908E-05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	3.196E+05	3.191E+05	3.183E+05	3.172E+05	3.164E+05	3.155E+05	3.142E+05	3.123E+05	3.117E+05
IV=	22	3.100E+05	3.093E+05	3.080E+05	3.061E+05	3.043E+05	3.030E+05	3.021E+05	3.012E+05	3.017E+05
IV=	21	3.080E+05	3.073E+05	3.058E+05	3.039E+05	3.026E+05	3.020E+05	3.009E+05	2.978E+05	2.962E+05
IV=	20	3.068E+05	3.060E+05	3.045E+05	3.029E+05	3.023E+05	3.020E+05	3.008E+05	2.982E+05	2.962E+05
IV=	19	3.060E+05	3.052E+05	3.038E+05	3.029E+05	3.029E+05	3.027E+05	3.016E+05	2.986E+05	2.962E+05
IV=	18	3.058E+05	3.050E+05	3.037E+05	3.030E+05	3.030E+05	3.027E+05	3.012E+05	2.984E+05	2.962E+05
IV=	17	3.057E+05	3.048E+05	3.035E+05	3.031E+05	3.026E+05	3.009E+05	2.980E+05	2.962E+05	2.962E+05
IV=	16	3.058E+05	3.045E+05	3.032E+05	3.030E+05	3.030E+05	3.022E+05	3.003E+05	2.976E+05	2.962E+05
IV=	15	3.060E+05	3.042E+05	3.027E+05	3.027E+05	3.028E+05	3.020E+05	3.000E+05	2.976E+05	2.962E+05
IV=	14	3.062E+05	3.035E+05	3.017E+05	3.018E+05	3.021E+05	3.013E+05	2.996E+05	2.974E+05	2.962E+05

IY= 13	3.060E+05	3.027E+05	3.007E+05	3.005E+05	3.009E+05	3.004E+05	2.989E+05	2.971E+05	2.962E+05
IY= 12	3.053E+05	3.025E+05	3.007E+05	2.999E+05	3.001E+05	2.997E+05	2.982E+05	2.967E+05	2.962E+05
IY= 11	3.093E+05	3.080E+05	3.084E+05	3.081E+05	3.065E+05	3.020E+05	2.985E+05	2.966E+05	2.962E+05
IY= 10	3.334E+05	3.340E+05	3.352E+05	3.238E+05	3.285E+05	3.173E+05	3.060E+05	2.967E+05	2.962E+05
IY= 9	3.654E+05	3.655E+05	3.639E+05	3.587E+05	3.489E+05	3.326E+05	3.162E+05	2.986E+05	2.962E+05
IY= 8	3.984E+05	3.953E+05	3.867E+05	3.773E+05	3.644E+05	3.445E+05	3.242E+05	3.027E+05	2.962E+05
IY= 7	4.454E+05	4.370E+05	4.165E+05	3.993E+05	3.769E+05	3.507E+05	3.278E+05	3.039E+05	2.962E+05
IY= 6	8.019E+05	7.407E+05	6.345E+05	4.057E+05	3.715E+05	3.462E+05	3.254E+05	3.018E+05	2.962E+05
IY= 5	8.121E+05	7.697E+05	6.059E+05	3.941E+05	3.580E+05	3.359E+05	3.181E+05	2.990E+05	2.962E+05
IY= 4	7.671E+05	7.563E+05	7.135E+05	4.153E+05	3.504E+05	3.248E+05	3.089E+05	2.973E+05	2.962E+05
IY= 3	6.951E+05	6.702E+05	5.874E+05	4.130E+05	3.464E+05	3.189E+05	3.048E+05	2.967E+05	2.962E+05
IY= 2	6.000E+05	5.655E+05	4.911E+05	4.008E+05	3.416E+05	3.119E+05	2.992E+05	2.963E+05	2.962E+05
IY= 1	4.516E+05	4.316E+05	3.913E+05	3.498E+05	3.164E+05	3.008E+05	2.966E+05	2.962E+05	2.962E+05
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST									
IY= 23	1.319E-01	1.364E-01	1.433E-01	1.525E-01	1.757E-01	2.315E-01	3.028E-01	3.655E-01	4.348E-01
IY= 22	1.581E-01	1.562E-01	1.509E-01	1.383E-01	1.250E-01	1.212E-01	1.204E-01	1.193E-01	1.456E-01
IY= 21	1.506E-01	1.447E-01	1.306E-01	9.973E-02	6.331E-02	3.631E-02	1.840E-02	2.995E-03	3.305E-03
IY= 20	1.439E-01	1.313E-01	1.018E-01	5.517E-02	3.539E-02	2.650E-02	1.646E-02	4.032E-03	3.166E-03
IY= 19	1.341E-01	1.165E-01	7.549E-02	5.041E-02	5.190E-02	5.510E-02	3.564E-02	5.621E-03	3.056E-03
IY= 18	1.331E-01	1.114E-01	7.076E-02	5.237E-02	6.096E-02	7.513E-02	5.461E-02	6.420E-03	3.045E-03
IY= 17	1.344E-01	1.102E-01	6.786E-02	6.179E-02	8.467E-02	1.023E-01	6.783E-02	6.793E-03	3.001E-03
IY= 16	1.423E-01	1.168E-01	6.806E-02	7.779E-02	1.153E-01	1.260E-01	7.196E-02	7.053E-03	2.945E-03
IY= 15	1.400E-01	1.096E-01	6.757E-02	9.090E-02	1.309E-01	1.364E-01	7.254E-02	7.396E-03	2.897E-03
IY= 14	1.345E-01	9.827E-02	7.517E-02	1.163E-01	1.550E-01	1.407E-01	7.012E-02	7.512E-03	2.810E-03
IY= 13	1.018E-01	1.071E-01	1.224E-01	1.466E-01	1.661E-01	1.286E-01	6.257E-02	7.242E-03	2.698E-03
IY= 12	6.025E-01	6.168E-01	5.891E-01	4.811E-01	5.394E-01	1.568E-01	5.387E-02	6.600E-03	2.564E-03
IY= 11	1.493E+00	1.477E+00	1.460E+00	1.349E+00	1.030E+00	4.825E-01	1.199E-01	5.819E-03	2.432E-03
IY= 10	1.912E+00	1.895E+00	1.915E+00	2.082E+00	1.782E+00	1.194E+00	5.418E-01	5.100E-03	2.325E-03
IY= 9	1.564E+00	1.567E+00	1.604E+00	2.258E+00	2.238E+00	1.616E+00	9.224E-01	5.593E-03	2.339E-03
IY= 8	7.257E-02	7.452E-02	8.533E-02	1.587E+00	2.215E+00	1.832E+00	1.156E+00	1.028E-02	2.157E-03
IY= 7	3.552E-02	4.816E-02	8.099E-02	1.154E+00	2.040E+00	1.867E+00	1.241E+00	1.229E-02	2.078E-03
IY= 6	3.502E-01	3.256E-01	2.807E-01	1.308E-01	2.120E+00	1.904E+00	1.228E+00	1.133E-02	2.007E-03
IY= 5	2.935E-00	2.522E+00	1.198E+00	5.874E-01	2.373E+00	1.884E+00	1.121E+00	9.477E-03	1.936E-03
IY= 4	1.068E+01	8.960E+00	2.073E+00	7.722E-01	2.372E+00	1.811E+00	8.980E-01	6.884E-03	1.860E-03
IY= 3	9.250E+00	7.979E+00	2.908E+00	1.510E+00	2.366E+00	1.744E+00	6.989E-01	4.735E-03	1.803E-03
IY= 2	7.171E+00	6.732E+00	5.280E+00	2.852E+00	2.212E+00	1.635E+00	3.106E-01	2.917E-02	1.755E-03
IY= 1	2.703E-01	2.208E-01	1.501E-01	8.618E-02	4.247E-02	2.402E-02	1.847E-02	6.480E-03	1.699E-03
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IY= 23	3.183E+02	3.178E+02	3.170E+02	3.160E+02	3.151E+02	3.142E+02	3.130E+02	3.110E+02	3.104E+02
IY= 22	3.087E+02	3.081E+02	3.067E+02	3.049E+02	3.031E+02	3.018E+02	3.009E+02	3.000E+02	3.005E+02
IY= 21	3.068E+02	3.060E+02	3.046E+02	3.027E+02	3.014E+02	3.008E+02	2.997E+02	2.966E+02	2.950E+02
IY= 20	3.056E+02	3.048E+02	3.033E+02	3.017E+02	3.011E+02	3.008E+02	2.996E+02	2.970E+02	2.950E+02
IY= 19	3.048E+02	3.040E+02	3.026E+02	3.017E+02	3.017E+02	3.015E+02	3.002E+02	2.974E+02	2.950E+02
IY= 18	3.046E+02	3.028E+02	3.025E+02	3.018E+02	3.018E+02	3.015E+02	3.000E+02	2.972E+02	2.950E+02
IY= 17	3.045E+02	3.036E+02	3.023E+02	3.019E+02	3.019E+02	3.014E+02	2.997E+02	2.969E+02	2.950E+02
IY= 16	3.046E+02	3.033E+02	3.020E+02	3.018E+02	3.018E+02	3.010E+02	2.991E+02	2.965E+02	2.950E+02
IY= 15	3.048E+02	3.030E+02	3.015E+02	3.015E+02	3.016E+02	3.008E+02	2.988E+02	2.964E+02	2.950E+02
IY= 14	3.049E+02	3.023E+02	3.005E+02	3.006E+02	3.009E+02	3.001E+02	2.984E+02	2.962E+02	2.950E+02
IY= 13	3.047E+02	3.015E+02	2.995E+02	2.993E+02	2.997E+02	2.992E+02	2.977E+02	2.959E+02	2.950E+02
IY= 12	3.041E+02	3.013E+02	2.993E+02	2.987E+02	2.989E+02	2.985E+02	2.970E+02	2.956E+02	2.950E+02
IY= 11	3.081E+02	3.068E+02	3.072E+02	3.069E+02	3.053E+02	3.008E+02	2.973E+02	2.954E+02	2.950E+02
IY= 10	3.320E+02	3.327E+02	3.339E+02	3.324E+02	3.272E+02	3.161E+02	3.048E+02	2.955E+02	2.950E+02
IY= 9	3.640E+02	3.640E+02	3.624E+02	3.573E+02	3.475E+02	3.312E+02	3.149E+02	2.974E+02	2.950E+02
IY= 8	3.968E+02	3.938E+02	3.851E+02	3.758E+02	3.629E+02	3.431E+02	3.229E+02	3.015E+02	2.950E+02
IY= 7	4.436E+02	4.353E+02	4.149E+02	3.977E+02	3.754E+02	3.493E+02	3.265E+02	3.027E+02	2.950E+02
IY= 6	7.987E+02	7.377E+02	6.320E+02	4.041E+02	3.700E+02	3.448E+02	3.241E+02	3.006E+02	2.950E+02
IY= 5	8.088E+02	7.667E+02	6.035E+02	3.925E+02	3.566E+02	3.366E+02	3.168E+02	2.979E+02	2.950E+02
IY= 4	7.640E+02	7.533E+02	7.107E+02	4.117E+02	3.490E+02	3.235E+02	3.077E+02	2.961E+02	2.950E+02
IY= 3	6.924E+02	6.675E+02	5.850E+02	4.113E+02	3.450E+02	3.176E+02	3.036E+02	2.955E+02	2.950E+02
IY= 2	5.976E+02	5.632E+02	4.892E+02	3.992E+02	3.402E+02	3.106E+02	2.980E+02	2.951E+02	2.950E+02
IY= 1	4.498E+02	4.299E+02	3.898E+02	3.484E+02	3.151E+02	2.996E+02	2.954E+02	2.950E+02	2.950E+02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IY= 23	1.113E+00	1.115E+00	1.118E+00	1.121E+00	1.124E+00	1.128E+00	1.132E+00	1.139E+00	1.141E+00
IY= 22	1.148E+00	1.150E+00	1.155E+00	1.162E+00	1.169E+00	1.174E+00	1.177E+00	1.181E+00	1.179E+00
IY= 21	1.155E+00	1.158E+00	1.163E+00	1.171E+00	1.175E+00	1.178E+00	1.182E+00	1.194E+00	1.201E+00

IY=	20	1.159E+00	1.162E+00	1.168E+00	1.174E+00	1.176E+00	1.178E+00	1.182E+00	1.193E+00	1.201E+00
IY=	19	1.163E+00	1.165E+00	1.171E+00	1.174E+00	1.174E+00	1.175E+00	1.180E+00	1.191E+00	1.201E+00
IY=	18	1.163E+00	1.166E+00	1.171E+00	1.174E+00	1.174E+00	1.175E+00	1.181E+00	1.192E+00	1.201E+00
IY=	17	1.163E+00	1.167E+00	1.172E+00	1.173E+00	1.173E+00	1.175E+00	1.182E+00	1.193E+00	1.201E+00
IY=	16	1.163E+00	1.168E+00	1.173E+00	1.174E+00	1.174E+00	1.177E+00	1.184E+00	1.195E+00	1.201E+00
IY=	15	1.163E+00	1.169E+00	1.175E+00	1.175E+00	1.174E+00	1.178E+00	1.185E+00	1.195E+00	1.201E+00
IY=	14	1.162E+00	1.172E+00	1.179E+00	1.178E+00	1.177E+00	1.180E+00	1.187E+00	1.196E+00	1.201E+00
IY=	13	1.162E+00	1.175E+00	1.183E+00	1.184E+00	1.182E+00	1.184E+00	1.190E+00	1.197E+00	1.201E+00
IY=	12	1.165E+00	1.176E+00	1.183E+00	1.186E+00	1.185E+00	1.187E+00	1.193E+00	1.198E+00	1.201E+00
IY=	11	1.150E+00	1.155E+00	1.153E+00	1.154E+00	1.160E+00	1.177E+00	1.191E+00	1.199E+00	1.201E+00
IY=	10	1.067E+00	1.065E+00	1.061E+00	1.066E+00	1.083E+00	1.121E+00	1.162E+00	1.199E+00	1.201E+00
IY=	9	9.743E-01	9.764E-01	9.918E-01	1.019E+00	1.069E+00	1.125E+00	1.191E+00	1.201E+00	
IY=	8	9.021E-01	9.086E-01	9.267E-01	9.422E-01	9.757E-01	1.032E+00	1.097E+00	1.175E+00	1.201E+00
IY=	7	8.075E-01	8.225E-01	8.604E-01	8.889E-01	9.429E-01	1.014E+00	1.085E+00	1.170E+00	1.201E+00
IY=	6	4.235E-01	4.596E-01	5.381E-01	8.718E-01	9.558E-01	1.027E+00	1.093E+00	1.178E+00	1.201E+00
IY=	5	4.207E-01	4.462E-01	5.739E-01	8.972E-01	9.916E-01	1.058E+00	1.118E+00	1.189E+00	1.201E+00
IY=	4	4.561E-01	4.636E-01	4.945E-01	8.579E-01	1.014E+00	1.094E+00	1.151E+00	1.196E+00	1.201E+00
IY=	3	5.087E-01	5.280E-01	6.037E-01	8.597E-01	1.026E+00	1.115E+00	1.166E+00	1.198E+00	1.201E+00
IY=	2	5.918E-01	6.279E-01	7.232E-01	8.865E-01	1.041E+00	1.140E+00	1.188E+00	1.200E+00	1.201E+00
IY=	1	7.871E-01	8.234E-01	9.082E-01	1.016E+00	1.124E+00	1.182E+00	1.199E+00	1.200E+00	1.201E+00
IX=	1	2	3	4	5	6	7	8	9	

 TIME STP# = 1 SWEEP NO# = 70 ZSLAB NO# = 40 ITERN NO# = 1

FLOW FIELD AT ITHYD= 1, IZ= 40, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF PI

IY=	23	2.304E+00	2.063E+00	1.818E+00	1.475E+00	1.102E+00	7.660E-01	5.840E-01	5.484E-01	1.129E-01
IY=	22	-1.918E+00	-2.005E+00	-2.055E+00	-2.112E+00	-2.176E+00	-2.168E+00	-2.083E+00	-1.789E+00	-1.573E+00
IY=	21	-3.014E+00	-3.027E+00	-3.104E+00	-3.235E+00	-3.303E+00	-3.148E+00	-2.779E+00	-2.513E+00	-1.086E+00
IY=	20	-5.553E+00	-5.330E+00	-5.310E+00	-5.319E+00	-5.251E+00	-4.920E+00	-4.139E+00	-3.367E+00	-9.500E-01
IY=	19	-7.766E+00	-7.609E+00	-7.711E+00	-7.777E+00	-7.648E+00	-7.077E+00	-5.781E+00	-4.280E+00	-8.671E-01
IY=	18	-9.806E+00	-9.256E+00	-9.570E+00	-9.882E+00	-1.006E+01	-9.638E+00	-7.911E+00	-5.565E+00	-8.380E-01
IY=	17	-1.087E+01	-9.907E+00	-1.019E+01	-1.053E+01	-1.107E+01	-1.085E+01	-9.185E+00	-6.700E+00	-8.147E-01
IY=	16	-1.028E+01	-8.674E+00	-8.792E+00	-8.824E+00	-1.081E+01	-1.192E+01	-1.058E+01	-8.079E+00	-7.929E-01
IY=	15	-1.059E+01	-8.890E+00	-9.335E+00	-1.265E+01	-1.468E+01	-1.391E+01	-1.158E+01	-8.929E+00	-7.805E-01
IY=	14	-2.609E+01	-2.342E+01	-2.105E+01	-1.963E+01	-1.766E+01	-1.462E+01	-1.312E+01	-1.047E+01	-7.586E-01
IY=	13	3.992E+01	4.114E+01	2.903E+01	-3.693E+01	-2.543E+01	-1.622E+01	-1.521E+01	-1.238E+01	-7.384E-01
IY=	12	1.312E+02	1.297E+02	9.692E+01	-5.675E+01	-3.764E+01	-1.955E+01	-1.715E+01	-1.423E+01	-7.203E-01
IY=	11	1.511E+02	1.527E+02	1.094E+02	-1.135E+02	-6.207E+01	-2.637E+01	-1.858E+01	-1.550E+01	-7.073E-01
IY=	10	2.961E+02	3.025E+02	3.242E+02	-3.247E+02	-1.097E+02	-3.784E+01	-2.082E+01	-1.620E+01	-6.989E-01
IY=	9	1.959E+02	2.003E+02	2.186E+02	-3.799E+02	-1.441E+02	-4.985E+01	-2.456E+01	-1.741E+01	-6.920E-01
IY=	8	-1.171E+02	-1.262E+02	-1.009E+02	-2.740E+02	-1.481E+02	-6.049E+01	-3.004E+01	-1.975E+01	-6.858E-01
IY=	7	-4.118E+01	-1.746E+02	-3.351E+02	-2.929E+02	-1.550E+02	-7.022E+01	-3.720E+01	-2.349E+01	-6.803E-01
IY=	6	1.084E+02	-7.683E+01	-2.842E+02	-2.949E+02	-1.568E+02	-7.699E+01	-4.461E+01	-2.793E+01	-6.760E-01
IY=	5	2.006E+02	6.942E+01	-1.370E+02	-2.568E+02	-1.465E+02	-7.759E+01	-5.086E+01	-3.176E+01	-6.715E-01
IY=	4	1.771E+02	9.700E+01	8.222E+01	-1.600E+02	-1.189E+02	-7.325E+01	-5.419E+01	-3.474E+01	-6.675E-01
IY=	3	1.269E+02	5.301E+01	1.195E+01	-9.748E+01	-9.296E+01	-6.756E+01	-5.373E+01	-3.540E+01	-6.659E-01
IY=	2	1.633E+01	-3.226E+01	-5.054E+01	-7.285E+01	-7.405E+01	-6.134E+01	-5.383E+01	-3.658E+01	-6.629E-01
IY=	1	-5.850E+01	-6.652E+01	-7.422E+01	-7.182E+01	-6.719E+01	-5.838E+01	-5.182E+01	-3.626E+01	-6.629E-01
IX=	1	2	3	4	5	6	7	8	9	

FIELD VALUES OF U1

IY=	23	-2.653E-01	-4.514E-01	-6.750E-01	-7.877E-01	-8.003E-01	-6.508E-01	-3.501E-01	3.120E-03
IY=	22	-1.614E-01	-2.944E-01	-4.749E-01	-6.057E-01	-7.005E-01	-7.103E-01	-7.081E-01	-5.430E-01
IY=	21	7.136E-02	1.375E-01	2.263E-01	2.919E-01	3.842E-01	2.457E-01	-7.071E-03	-1.101E-08
IY=	20	5.278E-02	1.112E-01	2.494E-01	4.126E-01	6.295E-01	5.279E-01	6.802E-02	3.604E-11
IY=	19	3.598E-01	6.272E-01	1.020E+00	1.289E+00	1.382E+00	1.117E+00	3.768E-01	4.176E-10
IY=	18	6.574E-01	1.143E+00	1.823E+00	2.180E+00	2.179E+00	1.750E+00	7.355E-01	4.836E-10
IY=	17	8.281E-01	1.473E+00	2.339E+00	2.643E+00	2.424E+00	1.781E+00	6.444E-01	3.519E-10
IY=	16	1.126E+00	2.070E+00	3.247E+00	3.374E+00	2.698E+00	1.569E+00	1.497E-01	3.346E-11
IY=	15	1.501E+00	2.897E+00	4.722E+00	4.236E+00	2.507E+00	6.817E-01	-7.452E-01	3.665E-12
IY=	14	1.789E+00	3.559E+00	6.044E+00	4.959E+00	2.614E+00	5.346E-01	-8.499E-01	1.394E-16
IY=	13	2.493E+00	5.339E+00	1.044E+01	7.253E+00	3.661E+00	9.713E-01	-7.118E-01	-2.509E-14
IY=	12	3.039E+00	6.754E+00	1.364E+01	8.946E+00	4.268E+00	1.178E+00	-7.156E-01	1.877E-11
IY=	11	3.354E+00	7.614E+00	1.553E+01	9.337E+00	4.253E+00	1.211E+00	-6.824E-01	2.958E-12
IY=	10	2.696E+00	3.849E+00	4.254E-05	4.554E+00	3.247E+00	1.107E+00	-6.179E-01	-2.112E-13
IY=	9	-4.056E+00	1.003E+00	3.100E-05	3.411E+00	2.348E+00	7.663E-01	-7.061E-01	1.217E-10
IX=	1	2	3	4	5	6	7	8	9

IY=	8	-5.525E+00	-6.147E+00	3.053E+00	-5.953E-01	1.907E-01	-2.158E-01	-1.142E+00	-1.763E-11	
IY=	7	-1.013E+01	-1.347E+01	-6.221E+00	-5.533E+00	-2.624E+00	-1.777E+00	-1.961E+00	5.838E-15	
IY=	6	-1.379E+01	-2.142E+01	-2.500E+01	-1.298E+01	-6.170E+00	-3.622E+00	-2.849E+00	6.156E-15	
IY=	5	-1.123E+01	-1.815E+01	-2.050E+01	-1.517E+01	-8.916E+00	-5.334E+00	-3.670E+00	8.483E-15	
IY=	4	-5.486E+00	-8.847E+00	-7.409E+00	-1.178E+01	-9.587E+00	-6.403E+00	-4.148E+00	1.093E-14	
IY=	3	-3.235E+00	-5.100E+00	-5.473E+00	-9.110E+00	-8.458E+00	-6.360E+00	-4.195E+00	5.507E-15	
IY=	2	-2.640E+00	-4.324E+00	-5.868E+00	-7.203E+00	-7.279E+00	-5.948E+00	-4.076E+00	1.685E-14	
IY=	1	-3.054E+00	-5.022E+00	-6.505E+00	-6.433E+00	-6.365E+00	-5.356E+00	-3.950E+00	1.944E-13	
IX=	1	2	3	4	5	6	7	8		
FIELD VALUES OF V1										
IY=	22	5.381E-01	6.627E-01	8.026E-01	9.775E-01	1.141E+00	1.306E+00	1.217E+00	6.360E-01	-8.257E-04
IY=	21	-1.315E+00	-1.248E+00	-1.076E+00	-7.739E-01	-3.141E-01	2.839E-01	6.115E-01	5.250E-01	1.016E+00
IY=	20	-1.150E+00	-1.104E+00	-1.011E+00	-8.864E-01	-4.362E-01	3.738E-01	1.225E+00	8.039E-01	7.364E-01
IY=	19	-5.449E-01	-4.189E-01	-2.002E-01	-2.108E-02	4.236E-01	1.001E+00	1.565E+00	1.127E+00	6.409E-01
IY=	18	2.511E+00	2.565E+00	2.479E+00	2.152E+00	1.768E+00	1.587E+00	1.571E+00	9.840E-01	5.619E-01
IY=	17	4.340E+00	4.341E+00	4.024E+00	3.231E+00	2.220E+00	1.537E+00	1.241E+00	5.340E-01	5.313E-01
IY=	16	6.097E+00	6.078E+00	5.543E+00	4.194E+00	2.453E+00	1.277E+00	7.089E-01	-3.436E-02	4.994E-01
IY=	15	8.471E+00	8.360E+00	7.486E+00	5.205E+00	2.435E+00	7.274E-01	2.981E-02	-2.889E-01	4.660E-01
IY=	14	1.052E+01	1.033E+01	9.265E+00	6.397E+00	3.047E+00	8.066E-01	-1.968E-01	-3.616E-01	4.458E-01
IY=	13	1.420E+01	1.393E+01	1.253E+01	8.153E+00	3.897E+00	1.012E+00	-4.028E-01	-4.576E-01	4.050E-01
IY=	12	1.350E+01	1.333E+01	1.212E+01	8.366E+00	4.088E+00	9.612E-01	-5.619E-01	-6.918E-01	3.622E-01
IY=	11	9.518E+00	9.643E+00	8.980E+00	6.440E+00	3.179E+00	4.968E-01	-6.731E-01	-7.595E-01	3.181E-01
IY=	10	1.109E-05	1.392E-05	1.995E-05	-4.744E-01	4.578E-01	-5.457E-01	-1.077E+00	-7.300E-01	2.811E-01
IY=	9	2.725E+00	-4.430E+00	-9.672E+00	1.254E-01	-9.896E-01	-1.610E+00	-1.736E+00	-9.953E-01	2.543E-01
IY=	8	1.455E+01	1.190E+01	-5.297E+00	-1.940E+00	-2.925E+00	-2.822E+00	-2.568E+00	-1.469E+00	2.293E-01
IY=	7	4.438E+01	4.134E+01	2.714E+01	-5.271E+00	-3.893E+00	-3.716E+00	-3.384E+00	-1.995E+00	2.044E-01
IY=	6	5.783E+01	5.571E+01	3.939E+01	-5.873E+00	-3.927E+00	-4.155E+00	-3.962E+00	-2.317E+00	1.795E-01
IY=	5	5.628E+01	5.353E+01	3.594E+01	2.080E+00	-1.830E+00	-3.619E+00	-3.985E+00	-2.219E+00	1.571E-01
IY=	4	3.641E+01	3.321E+01	2.552E+01	8.125E+00	9.585E-01	-2.184E+00	-3.332E+00	-1.727E+00	1.209E-01
IY=	3	2.150E+01	1.919E+01	1.306E+01	7.300E+00	2.377E+00	-7.806E-01	-1.941E+00	-9.631E-01	9.866E-02
IY=	2	1.437E+01	1.271E+01	8.678E+00	5.450E+00	2.374E+00	-3.609E-01	-1.297E+00	-6.017E-01	8.384E-02
IY=	1	5.382E+00	5.266E+00	3.843E+00	2.154E+00	1.320E+00	1.085E-01	1.590E-01	3.365E-02	4.217E-02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										
IY=	23	-1.938E+00	-1.890E+00	-1.855E+00	-1.858E+00	-1.907E+00	-1.979E+00	-1.965E+00	-1.517E+00	-1.355E-06
IY=	22	9.447E-02	7.745E-02	1.256E-01	1.616E-01	1.516E-01	9.494E-02	6.058E-02	4.570E-02	-2.350E-01
IY=	21	-2.932E-01	-2.774E-01	-2.283E-01	-1.704E-01	-2.072E-01	-2.744E-01	-3.964E-01	-3.789E-01	1.471E-01
IY=	20	9.226E-02	8.197E-02	4.557E-02	5.465E-03	-1.154E-01	-3.030E-01	-5.210E-01	-5.779E-01	1.107E-01
IY=	19	2.061E-01	2.469E-01	1.564E-01	8.250E-02	-7.958E-02	-2.840E-01	-5.919E-01	-7.889E-01	1.066E-01
IY=	18	3.608E-01	4.654E-01	3.469E-01	2.569E-01	8.860E-03	-2.342E-01	-5.791E-01	-9.253E-01	1.276E-01
IY=	17	8.637E-01	9.902E-01	8.532E-01	7.361E-01	3.182E-01	-5.160E-02	-4.941E-01	-9.184E-01	1.337E-01
IY=	16	1.683E+00	1.820E+00	1.705E+00	1.744E+00	1.076E+00	3.853E-01	-3.081E-01	-8.621E-01	1.409E-01
IY=	15	3.016E+00	3.155E+00	3.204E+00	4.735E+00	3.955E+00	1.884E+00	-1.674E-01	-1.595E+00	1.483E-01
IY=	14	3.246E+00	3.392E+00	3.517E+00	6.405E+00	5.666E+00	2.786E+00	5.705E-02	-1.562E+00	1.522E-01
IY=	13	7.538E+00	1.563E+00	5.019E+00	9.956E+00	9.137E+00	5.090E+00	1.196E+00	-1.282E+00	1.601E-01
IY=	12	7.175E+00	8.248E+00	1.587E+00	1.452E+00	1.377E+00	8.318E+00	3.068E+00	-7.917E+00	1.667E-01
IY=	11	5.087E+00	7.491E+00	2.134E+00	1.936E+01	1.944E+01	1.252E+01	5.698E+00	7.913E-02	1.720E+00
IY=	10	-6.302E+00	5.614E+00	2.078E+00	2.535E+01	2.401E+01	1.619E+01	8.170E+00	1.053E+00	1.752E+00
IY=	9	2.147E+00	1.482E+00	2.307E+00	1.856E+01	2.618E+01	1.858E+01	9.940E+00	1.870E+00	1.770E+00
IY=	8	1.100E+00	9.227E+00	5.401E+00	2.677E+01	2.819E+01	1.982E+01	1.085E+01	2.175E+00	1.782E+00
IY=	7	1.802E+00	1.493E+00	8.548E+00	2.533E+01	2.787E+01	1.926E+01	1.050E+01	1.709E+00	1.780E+00
IY=	6	2.719E+00	2.234E+00	1.179E+02	2.790E+01	2.407E+01	1.648E+01	8.901E+00	1.075E+00	1.791E+00
IY=	5	3.605E+00	3.108E+00	1.827E+02	3.603E+01	1.932E+01	1.213E+01	6.266E+00	5.056E+00	1.789E+00
IY=	4	3.155E+00	3.000E+00	2.451E+02	6.227E+01	1.765E+01	8.188E+00	3.327E+00	8.739E-02	1.781E+00
IY=	3	2.340E+00	2.135E+00	1.591E+02	5.780E+01	1.646E+01	6.254E+00	2.069E+00	-1.065E+01	1.761E+00
IY=	2	1.534E+00	1.349E+00	9.724E+01	4.622E+01	1.420E+01	4.113E+00	2.471E+00	-4.011E+01	1.752E+00
IY=	1	7.229E+01	5.307E+01	3.255E+01	1.368E+01	4.322E+00	4.267E-01	-1.761E+00	-1.014E+00	1.685E+00
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IY=	23	9.023E-01	9.017E-01	8.756E-01	9.027E-01	1.018E+00	1.360E+00	2.287E+00	4.072E+00	4.968E+00
IY=	22	4.471E-01	4.624E-01	4.633E-01	4.362E-01	4.186E-01	4.148E-01	4.166E-01	3.814E-01	4.011E-01
IY=	21	1.992E-01	2.112E-01	2.315E-01	2.411E-01	2.274E-01	1.821E-01	1.762E-01	4.445E-03	5.877E-03
IY=	20	5.309E-01	8.139E-01	9.193E-01	9.480E-01	9.901E-01	9.802E-01	6.701E-01	8.922E-03	3.801E-03
IY=	19	3.505E+00	4.384E+00	4.725E+00	4.566E+00	3.872E+00	2.990E+00	1.892E+00	1.188E-02	2.994E-03
IY=	18	8.732E+00	1.007E+01	1.055E+01	1.015E+01	8.205E+00	5.959E+00	3.959E+00	9.977E-03	2.572E-03
IY=	17	1.189E+01	1.333E+01	1.427E+01	1.444E+01	1.171E+01	8.194E+00	5.027E+00	6.594E-03	2.339E-03
IY=	16	1.624E+01	1.752E+01	1.898E+01	2.088E+01	1.749E+01	1.197E+01	6.503E+00	5.690E-03	2.111E-03
IY=	15	1.741E+01	1.887E+01	2.092E+01	2.826E+01	2.736E+01	1.813E+01	9.080E+00	1.743E-02	1.939E-03

IV=	14	1.403E+01	1.548E+01	1.762E+01	3.236E+01	3.506E+01	2.571E+01	1.126E+01	1.717E-02	1.743E-03
IV=	13	9.849E-01	9.987E-01	1.058E+00	3.955E+01	5.198E+01	3.789E+01	1.771E+01	1.333E-02	1.501E-03
IV=	12	7.244E-01	7.901E-01	1.063E+00	6.236E+01	8.505E+01	6.106E+01	2.960E+01	8.201E-03	1.272E-03
IV=	11	1.309E-01	2.091E-01	7.103E-01	1.034E+02	1.358E+02	9.927E+01	5.005E+01	4.280E-03	1.078E-03
IV=	10	5.318E-02	8.175E-02	1.065E-01	2.421E+00	1.706E+02	1.351E+02	7.202E+01	1.259E-02	9.403E-04
IV=	9	4.829E-01	1.003E-01	3.049E-01	1.589E+00	1.846E+02	1.562E+02	8.756E+01	3.111E-02	8.367E-04
IV=	8	9.750E+00	7.283E+02	3.116E+02	2.476E+01	1.961E+01	1.676E+02	9.569E+01	4.614E-02	7.446E-04
IV=	7	2.520E+03	1.861E+03	6.768E+02	7.439E+01	2.211E+02	1.712E+02	9.434E+01	4.525E-02	6.605E-04
IV=	6	3.811E+03	3.267E+03	2.062E+03	6.375E+02	2.656E+02	1.614E+02	8.183E+01	3.828E-02	5.879E-04
IV=	5	3.848E+03	4.006E+03	3.602E+03	1.751E+03	3.370E+02	1.402E+02	5.800E+01	2.618E-02	5.199E-04
IV=	4	6.120E+03	5.348E+03	3.963E+03	2.959E+03	5.424E+02	1.365E+02	2.983E+01	1.237E-02	4.505E-04
IV=	3	6.529E+03	6.094E+03	4.691E+03	2.108E+03	4.975E+02	1.203E+02	1.851E+01	4.708E-03	4.017E-04
IV=	2	5.097E+03	4.687E+03	3.470E+03	1.415E+03	3.810E+02	9.422E+01	4.437E+00	2.007E-03	3.591E-04
IV=	1	1.865E+01	1.054E+01	4.357E+00	1.028E+00	2.979E-01	1.804E-01	1.330E-01	1.895E-02	3.175E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IV=	23	5.888E-01	5.573E-01	5.062E-01	5.267E-01	6.280E-01	9.235E-01	1.785E+00	3.722E+00	4.006E+00
IV=	22	1.408E-01	1.520E-01	1.560E-01	1.495E-01	1.518E-01	1.638E-01	1.783E-01	1.631E-01	1.744E-01
IV=	21	5.118E-02	5.632E-02	6.378E-02	7.119E-02	7.218E-02	1.197E-01	1.568E-01	4.070E-04	6.496E-04
IV=	20	3.281E-01	7.304E-01	8.858E-01	9.750E-01	1.263E+00	1.261E+00	8.213E-01	1.158E-03	3.378E-04
IV=	19	7.555E+00	1.053E+01	1.145E+01	1.064E+01	8.214E+00	5.579E+00	5.033E+00	1.778E-03	2.356E-04
IV=	18	2.575E+01	3.167E+01	3.325E+01	3.060E+01	2.214E+01	1.395E+01	7.811E+00	1.369E-03	1.881E-04
IV=	17	4.013E+01	4.673E+01	5.017E+01	4.860E+01	3.475E+01	2.067E+01	1.079E+01	7.355E-04	1.631E-04
IV=	16	6.394E+01	7.138E+01	7.678E+01	8.119E+01	5.922E+01	3.526E+01	1.507E+01	5.846E-04	1.399E-04
IV=	15	8.334E+01	9.298E+01	1.020E+02	1.354E+02	1.122E+02	5.821E+01	2.076E+01	3.160E-03	1.231E-04
IV=	14	7.205E+01	8.259E+01	9.319E+01	1.766E+02	1.645E+02	8.623E+01	2.752E+01	3.091E-03	1.049E-04
IV=	13	2.329E+00	2.578E+00	2.594E+00	2.651E+02	2.986E+02	1.711E+02	5.434E+01	2.115E-03	8.387E-05
IV=	12	1.466E+00	1.673E+00	2.610E+00	4.933E+02	5.766E+02	3.302E+02	1.116E+02	1.020E-03	6.537E-05
IV=	11	9.217E-02	2.134E-01	1.165E+00	9.830E+02	1.123E+03	6.480E+02	2.354E+02	3.845E-04	5.105E-05
IV=	10	2.747E-02	5.039E-02	7.418E-02	7.298E+00	1.609E+03	1.023E+03	4.025E+02	1.941E-03	4.157E-05
IV=	9	7.005E-01	7.561E-02	3.626E-01	3.882E+00	1.835E+03	1.264E+03	5.338E+02	7.518E-03	3.489E-05
IV=	8	6.597E-04	4.596E-04	1.848E+04	7.293E+02	1.968E+03	1.383E+03	6.036E+02	1.361E-02	2.929E-05
IV=	7	1.772E+05	1.260E+05	4.531E+04	8.115E+02	2.239E+03	1.406E+03	5.870E+02	1.322E-02	2.447E-05
IV=	6	2.680E+05	2.357E+05	1.544E+05	2.157E+04	2.620E+03	1.218E+03	4.664E+02	1.029E-02	2.055E-05
IV=	5	2.140E+05	2.674E+05	3.003E+05	8.791E+04	3.238E+03	8.788E+02	2.872E+02	5.816E-03	1.709E-05
IV=	4	3.214E+05	2.0885E+05	2.621E+05	1.885E+05	6.357E+03	5.942E+02	1.241E+02	1.891E-03	1.378E-05
IV=	3	4.059E+05	3.968E+05	3.197E+05	9.685E+04	6.473E+03	4.511E+02	6.636E+01	4.437E-04	1.161E-05
IV=	2	2.943E+05	2.680E+05	1.796E+05	4.644E+04	4.840E+03	2.963E+02	1.272E+01	1.235E-04	9.809E-06
IV=	1	1.083E+02	4.599E+01	1.222E+01	1.400E+00	2.185E-01	1.030E-01	6.521E-02	3.545E-03	8.154E-06
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	3.206E+05	3.201E+05	3.195E+05	3.190E+05	3.187E+05	3.184E+05	3.179E+05	3.174E+05	3.170E+05
IV=	22	3.068E+05	3.056E+05	3.036E+05	3.013E+05	3.003E+05	2.999E+05	2.994E+05	2.986E+05	2.990E+05
IV=	21	3.064E+05	3.058E+05	3.048E+05	3.040E+05	3.040E+05	3.048E+05	3.053E+05	3.007E+05	2.971E+05
IV=	20	3.080E+05	3.057E+05	3.052E+05	3.049E+05	3.051E+05	3.054E+05	3.057E+05	3.019E+05	2.969E+05
IV=	19	3.057E+05	3.056E+05	3.055E+05	3.055E+05	3.055E+05	3.056E+05	3.058E+05	3.028E+05	2.966E+05
IV=	18	3.056E+05	3.055E+05	3.054E+05	3.054E+05	3.055E+05	3.057E+05	3.059E+05	3.031E+05	2.966E+05
IV=	17	3.057E+05	3.055E+05	3.054E+05	3.054E+05	3.055E+05	3.057E+05	3.060E+05	3.028E+05	2.963E+05
IV=	16	3.057E+05	3.054E+05	3.054E+05	3.055E+05	3.056E+05	3.058E+05	3.062E+05	3.018E+05	2.963E+05
IV=	15	3.059E+05	3.054E+05	3.055E+05	3.058E+05	3.061E+05	3.064E+05	3.071E+05	3.067E+05	2.962E+05
IV=	14	3.062E+05	3.055E+05	3.058E+05	3.064E+05	3.069E+05	3.070E+05	3.074E+05	3.041E+05	2.962E+05
IV=	13	3.063E+05	3.063E+05	3.069E+05	3.080E+05	3.092E+05	3.091E+05	3.081E+05	3.023E+05	2.962E+05
IV=	12	3.093E+05	3.091E+05	3.106E+05	3.121E+05	3.147E+05	3.142E+05	3.105E+05	3.010E+05	2.962E+05
IV=	11	3.172E+05	3.176E+05	3.199E+05	3.218E+05	3.258E+05	3.231E+05	3.156E+05	3.014E+05	2.962E+05
IV=	10	3.403E+05	3.403E+05	3.421E+05	3.419E+05	3.403E+05	3.322E+05	3.207E+05	3.034E+05	2.962E+05
IV=	9	3.812E+05	3.774E+05	3.620E+05	3.596E+05	3.508E+05	3.382E+05	3.240E+05	3.068E+05	2.962E+05
IV=	8	6.668E+05	6.020E+05	5.276E+05	3.762E+05	3.575E+05	3.410E+05	3.248E+05	3.046E+05	2.962E+05
IV=	7	7.451E+05	6.424E+05	5.240E+05	3.883E+05	3.598E+05	3.399E+05	3.228E+05	3.021E+05	2.962E+05
IV=	6	7.567E+05	6.560E+05	4.990E+05	3.841E+05	3.543E+05	3.184E+05	3.000E+05	2.962E+05	
IV=	5	7.457E+05	6.742E+05	5.217E+05	3.805E+05	3.451E+05	3.254E+05	3.117E+05	2.983E+05	2.962E+05
IV=	4	6.936E+05	6.664E+05	5.869E+05	4.032E+05	3.391E+05	3.168E+05	3.046E+05	2.971E+05	2.962E+05
IV=	3	6.237E+05	5.948E+05	5.239E+05	4.022E+05	3.357E+05	3.123E+05	3.013E+05	2.966E+05	2.962E+05
IV=	2	5.582E+05	5.305E+05	4.728E+05	3.908E+05	3.307E+05	3.079E+05	2.980E+05	2.965E+05	2.962E+05
IV=	1	4.566E+05	4.214E+05	3.755E+05	3.314E+05	3.091E+05	3.045E+05	3.032E+05	2.983E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IV=	23	1.244E-01	1.313E-01	1.363E-01	1.393E-01	1.485E-01	1.804E-01	2.639E-01	4.010E-01	5.546E-01
IV=	22	1.277E-01	1.264E-01	1.238E-01	1.146E-01	1.039E-01	9.455E-02	8.762E-02	8.024E-02	8.295E-02

IV= 21	6.980E-02	7.129E-02	7.565E-02	7.348E-02	6.448E-02	2.493E-02	1.782E-02	4.369E-03	4.786E-03
IV= 20	7.723E-02	8.163E-02	8.586E-02	8.296E-02	6.987E-02	6.856E-02	4.921E-02	6.190E-03	3.849E-03
IV= 19	1.463E-01	1.643E-01	1.754E-01	1.765E-01	1.643E-01	1.442E-01	1.062E-01	7.141E-03	3.416E-03
IV= 18	2.665E-01	2.882E-01	3.011E-01	3.031E-01	2.736E-01	2.291E-01	1.806E-01	6.546E-03	3.166E-03
IV= 17	3.172E-01	3.424E-01	3.651E-01	3.861E-01	3.550E-01	2.924E-01	2.108E-01	5.321E-03	3.020E-03
IV= 16	3.711E-01	3.869E-01	4.224E-01	4.832E-01	4.648E-01	3.880E-01	2.526E-01	4.941E-03	2.869E-03
IV= 15	3.274E-01	3.445E-01	3.861E-01	5.309E-01	6.003E-01	5.082E-01	3.575E-01	8.651E-03	2.749E-03
IV= 14	2.428E-01	2.612E-01	2.998E-01	5.337E-01	6.728E-01	5.867E-01	4.149E-01	8.587E-03	2.607E-03
IV= 13	3.748E-02	3.775E-02	3.885E-02	5.310E-02	8.145E-02	7.554E-02	5.196E-02	7.567E-03	2.419E-03
IV= 12	3.215E-02	3.357E-02	3.693E-02	7.095E-02	1.129E+00	1.016E+00	7.064E-02	5.935E-03	2.226E-03
IV= 11	1.672E-02	2.212E-02	3.896E-02	9.793E-02	1.478E+00	1.369E+00	9.579E-02	4.287E-03	2.050E-03
IV= 10	9.262E-03	1.164E-02	1.373E-02	7.231E-02	1.629E+00	1.605E+00	1.160E+00	7.355E-03	1.914E-03
IV= 9	2.625E-02	1.196E-02	2.501E-02	5.857E-02	1.671E+00	1.738E+00	1.293E+00	1.156E+02	1.806E-03
IV= 8	1.297E+00	1.039E+00	4.730E+00	7.568E+00	1.759E+00	1.828E+00	1.365E+00	1.408E+02	1.704E-03
IV= 7	3.227E+00	2.475E+00	9.100E+00	6.137E+00	1.966E+00	1.877E+00	1.365E+00	1.394E+02	1.604E-03
IV= 6	4.877E+00	4.076E+00	2.482E+00	1.696E+00	2.423E+00	1.924E+00	1.292E+00	1.282E+02	1.514E-03
IV= 5	6.201E+00	5.403E+00	3.888E+00	3.140E+00	3.157E+00	2.013E+00	1.054E+00	1.060E+02	1.424E-03
IV= 4	1.049E+01	8.921E+00	5.395E+00	4.180E+00	4.173E+00	2.821E+00	6.456E+00	7.290E+00	1.525E-03
IV= 3	9.451E+00	8.422E+00	6.195E+00	4.129E+00	3.441E+00	2.889E+00	4.545E+00	4.496E+00	1.251E-03
IV= 2	7.944E+00	7.377E+00	6.032E+00	3.881E+00	2.699E+00	2.697E+00	1.393E+01	2.936E+00	1.183E-03
IV= 1	2.892E-01	2.174E-01	1.398E-01	6.788E-02	3.655E-02	2.844E-02	2.442E-02	9.119E-03	1.112E-03
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF TMP1									
IV= 23	3.193E+02	3.188E+02	3.182E+02	3.177E+02	3.174E+02	3.171E+02	3.166E+02	3.161E+02	3.157E+02
IV= 22	3.055E+02	3.044E+02	3.024E+02	3.001E+02	2.991E+02	2.987E+02	2.982E+02	2.975E+02	2.978E+02
IV= 21	3.051E+02	3.046E+02	3.035E+02	3.028E+02	3.028E+02	3.036E+02	3.041E+02	2.995E+02	2.959E+02
IV= 20	3.047E+02	3.044E+02	3.040E+02	3.037E+02	3.039E+02	3.042E+02	3.045E+02	3.007E+02	2.957E+02
IV= 19	3.045E+02	3.044E+02	3.042E+02	3.042E+02	3.043E+02	3.044E+02	3.046E+02	3.016E+02	2.955E+02
IV= 18	3.044E+02	3.043E+02	3.042E+02	3.042E+02	3.043E+02	3.044E+02	3.047E+02	3.019E+02	2.952E+02
IV= 17	3.044E+02	3.043E+02	3.042E+02	3.042E+02	3.043E+02	3.045E+02	3.048E+02	3.016E+02	2.952E+02
IV= 16	3.045E+02	3.042E+02	3.041E+02	3.043E+02	3.044E+02	3.046E+02	3.050E+02	3.006E+02	2.951E+02
IV= 15	3.047E+02	3.043E+02	3.043E+02	3.046E+02	3.049E+02	3.052E+02	3.059E+02	3.035E+02	2.951E+02
IV= 14	3.050E+02	3.043E+02	3.046E+02	3.052E+02	3.057E+02	3.058E+02	3.061E+02	3.029E+02	2.950E+02
IV= 13	3.057E+02	3.056E+02	3.057E+02	3.068E+02	3.080E+02	3.079E+02	3.068E+02	3.011E+02	2.950E+02
IV= 12	3.081E+02	3.079E+02	3.093E+02	3.109E+02	3.134E+02	3.129E+02	3.093E+02	2.998E+02	2.950E+02
IV= 11	3.159E+02	3.163E+02	3.166E+02	3.205E+02	3.245E+02	3.219E+02	3.143E+02	3.002E+02	2.950E+02
IV= 10	3.389E+02	3.388E+02	3.408E+02	3.405E+02	3.389E+02	3.308E+02	3.195E+02	3.022E+02	2.950E+02
IV= 9	3.797E+02	3.759E+02	3.605E+02	3.582E+02	3.494E+02	3.368E+02	3.227E+02	3.036E+02	2.950E+02
IV= 8	6.642E+02	5.996E+02	5.255E+02	3.747E+02	3.561E+02	3.396E+02	3.236E+02	3.032E+02	2.950E+02
IV= 7	7.410E+02	6.398E+02	5.219E+02	3.867E+02	3.584E+02	3.385E+02	3.215E+02	3.009E+02	2.950E+02
IV= 6	7.556E+02	6.524E+02	4.970E+02	3.825E+02	3.529E+02	3.329E+02	3.171E+02	2.988E+02	2.950E+02
IV= 5	7.427E+02	6.715E+02	5.196E+02	3.790E+02	3.438E+02	3.241E+02	3.105E+02	2.971E+02	2.950E+02
IV= 4	6.908E+02	6.638E+02	5.846E+02	4.016E+02	3.377E+02	3.155E+02	3.031E+02	2.959E+02	2.950E+02
IV= 3	6.212E+02	5.924E+02	5.218E+02	4.006E+02	3.344E+02	3.111E+02	3.001E+02	2.954E+02	2.950E+02
IV= 2	5.559E+02	5.203E+02	4.710E+02	3.892E+02	3.293E+02	3.067E+02	2.968E+02	2.953E+02	2.950E+02
IV= 1	4.545E+02	4.197E+02	3.740E+02	3.301E+02	3.078E+02	3.033E+02	3.020E+02	2.971E+02	2.950E+02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF RHO1									
IV= 23	1.110E+00	1.111E+00	1.113E+00	1.115E+00	1.116E+00	1.117E+00	1.119E+00	1.121E+00	1.122E+00
IV= 22	1.159E+00	1.164E+00	1.172E+00	1.180E+00	1.185E+00	1.186E+00	1.191E+00	1.190E+00	
IV= 21	1.161E+00	1.163E+00	1.167E+00	1.170E+00	1.170E+00	1.167E+00	1.165E+00	1.183E+00	1.197E+00
IV= 20	1.163E+00	1.164E+00	1.165E+00	1.167E+00	1.166E+00	1.165E+00	1.164E+00	1.178E+00	1.198E+00
IV= 19	1.163E+00	1.164E+00	1.164E+00	1.164E+00	1.164E+00	1.164E+00	1.163E+00	1.175E+00	1.199E+00
IV= 18	1.164E+00	1.164E+00	1.164E+00	1.164E+00	1.164E+00	1.164E+00	1.163E+00	1.173E+00	1.200E+00
IV= 17	1.164E+00	1.164E+00	1.165E+00	1.165E+00	1.164E+00	1.163E+00	1.162E+00	1.175E+00	1.200E+00
IV= 16	1.163E+00	1.164E+00	1.165E+00	1.164E+00	1.164E+00	1.163E+00	1.162E+00	1.178E+00	1.201E+00
IV= 15	1.163E+00	1.164E+00	1.164E+00	1.163E+00	1.162E+00	1.161E+00	1.158E+00	1.167E+00	1.201E+00
IV= 14	1.161E+00	1.164E+00	1.162E+00	1.161E+00	1.159E+00	1.158E+00	1.157E+00	1.170E+00	1.201E+00
IV= 13	1.159E+00	1.162E+00	1.159E+00	1.154E+00	1.150E+00	1.150E+00	1.154E+00	1.176E+00	1.201E+00
IV= 12	1.151E+00	1.152E+00	1.146E+00	1.139E+00	1.130E+00	1.132E+00	1.145E+00	1.181E+00	1.201E+00
IV= 11	1.123E+00	1.122E+00	1.113E+00	1.104E+00	1.091E+00	1.100E+00	1.127E+00	1.180E+00	1.201E+00
IV= 10	1.048E+00	1.068E+00	1.043E+00	1.037E+00	1.046E+00	1.070E+00	1.109E+00	1.172E+00	1.201E+00
IV= 9	9.349E-01	9.444E-01	9.848E-01	9.854E-01	1.012E+00	1.051E+00	1.098E+00	1.167E+00	1.201E+00
IV= 8	5.328E-01	5.901E-01	6.735E-01	9.430E-01	9.935E-01	1.043E+00	1.095E+00	1.168E+00	1.201E+00
IV= 7	4.785E-01	5.528E-01	6.766E-01	9.135E-01	9.870E-01	1.046E+00	1.102E+00	1.177E+00	1.201E+00
IV= 6	4.706E-01	5.418E-01	7.108E-01	9.234E-01	1.002E+00	1.063E+00	1.117E+00	1.185E+00	1.201E+00
IV= 5	4.780E-01	5.279E-01	6.809E-01	9.324E-01	1.029E+00	1.042E+00	1.140E+00	1.192E+00	1.201E+00
IV= 4	5.137E-01	5.343E-01	6.065E-01	8.808E-01	1.048E+00	1.122E+00	1.168E+00	1.197E+00	1.201E+00

IY=	3	5.711E-01	5.983E-01	6.791E-01	8.836E-01	1.059E+00	1.158E+00	1.180E+00	1.199E+00	1.201E+00
IY=	2	6.374E-01	6.703E-01	7.519E-01	9.096E-01	1.075E+00	1.155E+00	1.193E+00	1.199E+00	1.201E+00
IY=	1	7.790E-01	8.435E-01	9.467E-01	1.073E+00	1.150E+00	1.167E+00	1.173E+00	1.192E+00	1.201E+00
IX=	1	2	3	4	5	6	7	8	9	

TIME STEP= 1 SWEEP NO= 70 ZOLAB NO= 42 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 42, ISWEEP= 70, ISTEP= 1

FIELD VALUES OF P1

IY= 23	5.381E+00	5.073E+00	4.754E+00	4.446E+00	4.244E+00	4.199E+00	4.228E+00	4.216E+00	4.148E+00
IY= 22	5.475E+00	5.044E+00	4.301E+00	3.695E+00	3.374E+00	3.749E+00	4.726E+00	5.576E+00	-1.500E+00
IY= 21	3.541E+00	2.829E+00	1.658E+00	8.489E-01	7.451E-01	1.760E+00	3.645E+00	5.115E+00	-1.071E+00
IY= 20	8.169E-01	-6.516E-02	-1.497E+00	-2.458E+00	-2.525E+00	-1.160E+00	1.377E+00	3.357E+00	-9.435E-01
IY= 19	-3.311E+00	-4.383E+00	-6.029E+00	-6.957E+00	-6.826E+00	-5.173E+00	-2.163E+00	3.546E-01	-8.572E-01
IY= 18	-7.773E+00	-8.892E+00	-1.051E+01	-1.121E+01	-1.099E+01	-9.504E+00	-6.790E+00	-4.203E+00	-8.284E-01
IY= 17	-1.129E+01	-1.265E+01	-1.444E+01	-1.476E+01	-1.380E+01	-1.191E+01	-8.758E+00	-5.339E+00	-8.046E-01
IY= 16	-1.938E+01	-2.117E+01	-2.380E+01	-2.152E+01	-1.795E+01	-1.378E+01	-1.014E+01	-6.495E+00	-7.827E-01
IY= 15	-3.436E+01	-3.775E+01	-4.365E+01	-2.984E+01	-1.755E+01	-1.160E+01	-9.560E+00	-8.185E+00	-7.705E-01
IY= 14	-4.611E+01	-4.964E+01	-5.494E+01	-4.347E+01	-2.293E+01	-1.267E+01	-1.022E+01	-9.319E+00	-7.488E-01
IY= 13	-7.285E+01	-7.636E+01	-8.048E+01	-7.010E+01	-3.705E+01	-1.648E+01	-1.172E+01	-1.051E+01	-7.284E-01
IY= 12	-1.281E+02	-1.577E+02	-1.466E+02	-1.214E+02	-6.114E+01	-2.360E+01	-1.387E+01	-1.167E+01	-7.112E-01
IY= 11	-1.696E+02	-1.752E+02	-1.870E+02	-1.653E+02	-8.634E+01	-3.295E+01	-1.670E+01	-1.284E+01	-6.984E-01
IY= 10	-2.752E+02	-2.817E+02	-2.253E+02	-1.818E+02	-1.016E+02	-4.178E+01	-2.016E+01	-1.423E+01	-6.902E-01
IY= 9	-1.673E+02	-2.529E+02	-2.381E+02	-1.925E+02	-1.142E+02	-5.018E+01	-2.437E+01	-1.610E+01	-6.834E-01
IY= 8	-8.805E+01	-1.555E+02	-1.947E+02	-1.836E+02	-1.179E+02	-5.771E+01	-2.968E+01	-1.907E+01	-6.773E-01
IY= 7	7.848E+01	-4.837E+01	-1.734E+02	-2.104E+02	-1.246E+02	-6.495E+01	-3.634E+01	-2.299E+01	-6.720E-01
IY= 6	1.955E+02	1.561E+01	-1.622E+02	-2.263E+02	-1.279E+02	-6.986E+01	-4.325E+01	-2.678E+01	-6.678E-01
IY= 5	2.391E+02	8.120E+01	-5.265E+01	-1.918E+02	-1.266E+02	-7.325E+01	-4.892E+01	-3.046E+01	-6.635E-01
IY= 4	2.118E+02	1.187E+02	7.327E+01	-8.492E+01	-1.012E+02	-7.126E+01	-5.399E+01	-3.361E+01	-6.595E-01
IY= 3	1.305E+02	5.787E+01	1.544E+01	-7.139E+01	-8.902E+01	-6.837E+01	-5.529E+01	-3.434E+01	-6.580E-01
IY= 2	2.413E+01	-2.183E+01	-4.271E+01	-7.033E+01	-7.967E+01	-6.678E+01	-5.613E+01	-3.585E+01	-6.552E-01
IY= 1	-5.820E+01	-6.741E+01	-7.865E+01	-8.211E+01	-7.783E+01	-6.568E+01	-5.652E+01	-3.684E+01	-6.551E-01
IX=	1	2	3	4	5	6	7	8	9

FIELD VALUES OF U1

IY= 23	-4.305E-01	-7.446E-01	-1.058E+00	-1.208E+00	-1.226E+00	-1.010E+00	-5.243E-01	-1.115E-01
IY= 22	-5.910E-01	-1.045E+00	-1.526E+00	-1.787E+00	-1.865E+00	-1.625E+00	-9.845E-01	-4.354E-08
IY= 21	-7.812E-01	-1.376E+00	-1.994E+00	-2.306E+00	-2.360E+00	-2.023E+00	-1.223E+00	1.282E-11
IY= 20	-8.887E-01	-1.551E+00	-2.237E+00	-2.589E+00	-2.668E+00	-2.323E+00	-1.458E+00	8.489E-12
IY= 19	-9.771E-01	-1.706E+00	-2.435E+00	-2.773E+00	-2.849E+00	-2.526E+00	-1.667E+00	5.186E-12
IY= 18	-1.050E+00	-1.801E+00	-2.507E+00	-2.822E+00	-2.904E+00	-2.618E+00	-1.793E+00	1.117E-12
IY= 17	-1.251E+00	-2.116E+00	-2.927E+00	-3.234E+00	-3.118E+00	-2.769E+00	-1.974E+00	4.605E-13
IY= 16	-1.194E+00	-2.120E+00	-3.064E+00	-2.411E+00	-2.144E+00	-2.284E+00	-1.877E+00	1.134E-11
IY= 15	-7.155E-01	-1.264E+00	-1.806E+00	3.898E-01	4.125E-01	-4.314E-01	-1.095E+00	-1.038E-14
IY= 14	1.044E-01	2.093E-02	-8.331E-01	-3.312E-01	-1.240E-01	-5.201E-01	-9.639E-01	4.666E-16
IY= 13	4.346E-01	4.479E-02	-2.174E+00	-1.491E+00	-7.470E-01	-6.890E-01	-9.563E-01	2.041E-15
IY= 12	7.298E-01	-2.335E-01	-3.807E+00	-2.404E+00	-1.326E+00	-1.017E+00	-1.094E+00	5.117E-15
IY= 11	-3.325E-01	2.076E-01	-3.691E+00	-2.804E+00	-1.860E+00	-1.434E+00	-1.328E+00	8.556E-15
IY= 10	-6.175E+00	-7.606E+00	-5.474E+00	-3.873E+00	-2.572E+00	-1.894E+00	-1.594E+00	1.005E-14
IY= 9	-7.610E+00	-9.628E+00	-6.051E+00	-5.192E+00	-3.414E+00	-2.431E+00	-1.911E+00	1.252E-14
IY= 8	-6.489E+00	-7.844E+00	-4.375E+00	-6.576E+00	-4.557E+00	-3.183E+00	-2.336E+00	1.597E-14
IY= 7	-7.933E+00	-1.039E+01	-1.035E+01	-1.032E+01	-6.390E+00	-4.209E+00	-2.888E+00	1.943E-14
IY= 6	-9.420E+00	-1.364E+01	-1.538E+01	-1.331E+01	-8.361E+00	-5.279E+00	-3.409E+00	2.026E-14
IY= 5	-7.881E+00	-1.167E+01	-1.209E+01	-1.307E+01	-9.589E+00	-6.386E+00	-3.936E+00	2.755E-14
IY= 4	-4.139E+00	-6.293E+00	-5.296E+00	-9.356E+00	-9.259E+00	-6.996E+00	-4.382E+00	3.432E-14
IY= 3	-2.578E+00	-4.112E+00	-4.690E+00	-7.829E+00	-8.676E+00	-6.977E+00	-4.540E+00	1.655E-14
IY= 2	-2.156E+00	-3.580E+00	-5.084E+00	-6.901E+00	-8.004E+00	-6.827E+00	-4.638E+00	4.707E-14
IY= 1	-2.784E+00	-4.767E+00	-6.633E+00	-7.682E+00	-7.914E+00	-6.492E+00	-4.580E+00	7.405E-13
IX=	1	2	3	4	5	6	7	8

FIELD VALUES OF V1

IY= 22	2.455E+00	2.693E+00	2.818E+00	2.972E+00	3.157E+00	3.493E+00	3.858E+00	4.023E+00	7.094E-01
IY= 21	1.807E+00	2.223E+00	2.508E+00	2.851E+00	3.178E+00	3.700E+00	4.337E+00	5.235E+00	1.039E+00
IY= 20	8.635E-01	1.515E+00	1.628E+00	2.002E+00	2.387E+00	3.004E+00	3.753E+00	4.705E+00	7.817E-01
IY= 19	-2.335E-01	3.673E-01	7.278E-01	1.125E+00	1.552E+00	2.193E+00	2.929E+00	3.752E+00	6.588E-01
IY= 18	-1.794E+00	-1.213E+00	-7.488E+00	-1.671E+00	3.433E+00	9.921E+00	1.673E+00	2.320E+00	5.602E+00
IY= 17	-2.613E+00	-2.033E+00	-1.521E+00	-8.093E+00	-1.288E+00	6.491E+00	1.307E+00	1.782E+00	5.251E+00
IY= 16	-4.224E+00	-3.527E+00	-2.763E+00	-1.436E+00	-8.450E-02	7.197E-01	1.070E+00	1.369E+00	4.899E+00

IV= 15	-6.442E+00	-5.645E+00	-4.119E+00	3.451E-01	1.739E+00	1.371E+00	8.900E-01	8.495E-01	4.543E-01
IV= 14	-7.562E+00	-6.720E+00	-4.485E+00	1.302E+00	1.542E+00	9.326E-01	4.941E-01	8.134E-01	4.335E-01
IV= 13	-9.424E+00	-8.859E+00	-5.865E+00	7.184E-01	1.173E+00	4.243E-01	-4.156E-02	5.201E-01	3.918E-01
IV= 12	-1.246E+01	-1.244E+01	-8.510E+00	2.001E-01	8.111E-01	-2.709E-02	-4.872E-01	8.500E-02	3.490E-01
IV= 11	-9.889E+00	-1.302E+01	-8.263E+00	-9.842E-02	-7.355E-03	-7.469E-01	-1.007E+00	-4.283E-01	3.056E-01
IV= 10	1.211E+01	-1.954E+00	-8.295E+00	-1.215E+00	-1.393E+00	-1.730E+00	-1.661E+00	-9.223E-01	2.694E-01
IV= 9	3.080E+01	1.931E+01	1.804E+00	-1.951E+00	-2.425E+00	-2.580E+00	-2.511E+00	-1.351E+00	2.433E-01
IV= 8	4.607E+01	3.724E+01	1.733E+01	-1.114E+00	-3.064E+00	-3.350E+00	-3.002E+00	-1.831E+00	2.192E-01
IV= 7	5.343E+01	4.530E+01	2.476E+01	-3.229E+00	-3.792E+00	-4.007E+00	-3.663E+00	-2.236E+00	1.951E-01
IV= 6	5.481E+01	4.757E+01	2.731E+01	-1.103E+00	-3.392E+00	-4.218E+00	-4.095E+00	-2.363E+00	1.711E-01
IV= 5	4.813E+01	4.296E+01	2.768E+01	4.203E+00	-1.777E+00	-3.775E+00	-4.094E+00	-2.232E+00	1.496E-01
IV= 4	3.077E+01	2.842E+01	2.221E+01	8.851E+00	5.614E-01	-2.622E+00	-3.453E+00	-1.759E+00	1.235E-01
IV= 3	1.698E+01	1.518E+01	1.074E+01	6.420E+00	1.544E+00	-1.507E+00	-2.144E+00	-9.569E-01	9.364E-02
IV= 2	1.181E+01	1.059E+01	7.709E+00	5.046E+00	1.525E+00	-1.131E+00	-1.559E+00	-5.516E-01	7.954E-02
IV= 1	4.652E+00	4.600E+00	3.454E+00	2.091E+00	6.518E-01	-5.571E-01	-3.012E+01	4.437E-02	3.993E-02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IV= 23	2.733E-01	1.012E-01	-1.239E-01	-4.006E-01	-6.535E-01	-9.512E-01	-1.248E+00	-1.256E+00	-2.162E-06
IV= 22	1.283E+00	9.908E-01	7.041E-01	3.887E-01	9.563E-02	-2.457E-01	-6.687E-01	-1.469E+00	-4.230E-01
IV= 21	1.570E+00	1.140E+00	7.180E-01	2.472E-01	-1.634E-01	-5.946E-01	-1.103E+00	-2.043E+00	2.229E-02
IV= 20	1.723E+00	1.241E+00	7.722E-01	2.570E-01	-1.889E-01	-6.787E-01	-1.291E+00	-2.289E+00	4.843E-02
IV= 19	1.734E+00	1.143E+00	6.058E-01	6.529E-02	-3.503E-01	-8.162E-01	-1.462E+00	-2.413E+00	5.262E-02
IV= 18	1.527E+00	8.177E-01	2.170E-01	-2.486E-01	-4.514E-01	-7.344E-01	-1.390E+00	-2.231E+00	6.496E-02
IV= 17	1.085E+00	3.069E-01	-1.613E-01	-2.439E-01	-8.410E-02	-3.269E-01	-1.206E+00	-2.183E+00	7.051E-02
IV= 16	2.476E-01	-2.669E-01	-8.293E-02	1.025E+00	1.794E+00	9.156E-01	-6.854E-01	-2.090E+00	7.656E-02
IV= 15	-5.624E-01	-8.874E-01	1.171E-01	4.570E+00	5.156E+00	3.143E+00	4.578E-01	-2.060E+00	8.265E-02
IV= 14	-2.125E+00	-1.950E+00	-2.865E-02	5.390E+00	6.067E+00	3.721E+00	7.261E-01	-2.030E+00	8.607E-02
IV= 13	-4.077E+00	-2.737E+00	8.024E-01	6.537E+00	8.356E+00	5.370E+00	1.756E+00	-1.721E+00	9.216E-02
IV= 12	-4.635E+00	-2.644E+00	1.477E+00	8.640E+00	1.164E+01	7.806E+00	3.252E+00	-1.243E+00	9.740E-02
IV= 11	2.103E+01	7.796E+00	2.815E+00	1.185E+01	1.561E+01	1.077E+01	5.090E+00	-5.729E-01	1.017E-01
IV= 10	5.215E+01	3.567E+01	1.163E+01	1.668E+01	1.884E+01	1.309E+01	6.531E+00	-1.506E-01	1.047E-01
IV= 9	9.930E+01	7.619E+01	3.844E+01	1.733E+01	2.068E+01	1.457E+01	7.432E+00	3.495E-02	1.065E-01
IV= 8	1.576E+02	1.286E+02	7.316E+01	2.588E+01	2.195E+01	1.517E+01	7.681E+00	6.147E-02	1.078E-01
IV= 7	2.164E+02	1.750E+02	9.684E+01	2.997E+01	2.127E+01	1.431E+01	7.016E+00	-1.215E-01	1.088E-01
IV= 6	2.813E+02	2.283E+02	3.819E+01	1.942E+01	1.201E+01	5.661E+00	-3.513E+01	1.093E-01	
IV= 5	3.282E+02	2.791E+02	1.723E+02	5.429E+01	1.872E+01	3.198E+00	3.661E+00	-5.368E-01	1.094E-01
IV= 4	2.837E+02	2.627E+02	2.029E+02	7.433E+01	2.018E+01	6.715E+00	1.755E+00	-7.286E-01	1.089E-01
IV= 3	2.116E+02	1.918E+02	1.464E+02	6.371E+01	1.854E+01	5.210E+00	7.388E-01	-9.216E-01	1.073E-01
IV= 2	1.446E+02	1.281E+02	9.477E+01	4.848E+01	1.523E+01	3.213E+00	-1.371E+00	-2.033E+00	1.065E-01
IV= 1	7.581E+01	5.364E+01	3.214E+01	1.269E+01	3.367E+00	-1.439E+00	-4.832E+00	-3.606E+00	9.870E-02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF KE									
IV= 23	9.968E-01	9.459E-01	9.156E-01	9.972E-01	1.148E+00	1.445E+00	2.175E+00	4.698E+00	1.103E+01
IV= 22	2.981E-02	3.977E-02	5.063E-02	6.358E-02	7.461E-02	8.784E-02	1.004E-01	1.219E-01	6.904E-03
IV= 21	1.557E-02	2.668E-02	4.196E-02	5.988E-02	7.367E-02	8.813E-02	1.029E-01	1.432E-01	6.148E-03
IV= 20	6.349E-03	1.440E-02	3.029E-02	4.811E-02	6.134E-02	7.263E-02	8.156E-02	1.127E-01	4.044E-03
IV= 19	1.312E-02	2.130E-02	2.643E-02	4.136E-02	5.093E-02	5.596E-02	5.560E-02	7.071E-02	3.002E-03
IV= 18	3.568E-02	2.856E-02	3.552E-02	4.316E-02	4.780E-02	4.827E-02	4.178E-02	4.222E-02	2.452E-03
IV= 17	7.401E-02	6.016E-02	6.216E-02	5.114E-02	5.773E-02	5.267E-02	4.152E-02	3.261E-02	2.184E-03
IV= 16	1.557E-01	1.264E-01	1.007E-01	4.558E-02	3.521E-02	3.588E-02	3.201E-02	2.414E-02	1.930E-03
IV= 15	2.477E-01	2.001E-01	1.121E-01	1.881E+01	2.466E+01	2.073E+01	1.040E+01	3.066E-02	1.741E-03
IV= 14	3.499E-01	2.988E-01	1.410E-01	1.791E+01	2.779E+01	2.598E+01	1.284E+01	2.856E-02	1.539E-03
IV= 13	5.584E-01	5.330E-01	2.619E-01	1.460E+01	4.287E+01	3.735E+01	2.024E+01	1.982E-02	1.289E-03
IV= 12	1.407E+01	6.698E+00	1.586E+01	2.422E+01	6.991E+01	5.894E+01	3.245E+01	1.087E-02	1.056E-03
IV= 11	2.931E+02	7.669E+01	2.757E+01	3.016E+01	1.015E+02	8.602E+01	4.829E+01	5.789E-03	8.632E-04
IV= 10	7.750E+02	5.600E+02	8.794E+01	3.988E+01	1.235E+02	1.066E+02	6.129E+01	9.231E-03	7.268E-04
IV= 9	1.415E+03	1.061E+03	4.963E+02	7.172E+01	1.363E+02	1.194E+02	6.979E+01	1.672E-02	6.258E-04
IV= 8	2.552E+03	2.100E+03	1.198E+03	2.296E+02	1.556E+02	1.275E+02	7.346E+01	2.611E-02	5.367E-04
IV= 7	3.754E+03	3.265E+03	2.099E+03	6.096E+02	1.921E+02	1.295E+02	6.967E+01	3.271E-02	4.557E-04
IV= 6	4.719E+03	4.622E+03	3.733E+03	1.365E+03	1.789E+02	1.277E+02	5.883E+01	3.320E-02	3.863E-04
IV= 5	4.735E+03	5.083E+03	5.089E+03	2.509E+03	4.700E+02	1.350E+02	4.159E+01	2.687E-02	3.216E-04
IV= 4	6.122E+03	5.605E+03	5.027E+03	3.328E+03	6.969E+02	1.504E+02	3.203E+01	1.577E-02	2.559E-04
IV= 3	6.040E+03	5.658E+03	4.702E+03	2.466E+03	6.182E+02	1.401E+02	2.597E+01	9.888E-03	2.110E-04
IV= 2	4.554E+03	4.216E+03	3.290E+03	1.608E+03	4.616E+02	1.151E+02	1.091E+01	2.646E-02	1.703E-04
IV= 1	2.037E+01	1.074E+01	4.256E+00	9.579E-01	3.549E-01	2.717E-01	2.719E-01	8.740E-02	1.538E-04
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF EP									
IV= 23	7.554E-01	6.361E-01	5.609E-01	6.124E-01	7.483E-01	1.060E+00	1.849E+00	5.329E+00	1.671E+01

IV= 22	6.343E-03	9.775E-03	1.404E-02	1.976E-02	2.511E-02	3.208E-02	3.920E-02	5.545E-02	8.270E-04
IV= 21	2.393E-03	5.310E-03	1.059E-02	1.806E-02	2.464E-02	3.224E-02	4.067E-02	7.057E-02	6.949E-04
IV= 20	6.234E-04	2.129E-03	6.496E-03	1.300E-02	1.872E-02	2.412E-02	2.870E-02	4.926E-02	5.707E-04
IV= 19	1.852E-03	1.848E-03	5.294E-03	1.037E-02	1.416E-02	1.631E-02	1.616E-02	2.450E-02	2.372E-04
IV= 18	8.306E-02	5.949E-03	8.250E-03	1.105E-02	1.288E-02	1.307E-02	1.055E-02	1.150E-02	1.750E-04
IV= 17	2.481E-02	1.818E-02	1.910E-02	1.863E-02	1.710E-02	1.490E-02	1.043E-02	7.672E-03	1.471E-04
IV= 16	7.572E-02	5.536E-02	3.940E-02	1.199E-02	8.142E-03	8.376E-03	7.059E-03	4.887E-03	1.223E-04
IV= 15	1.519E-01	1.103E-01	4.626E-02	7.680E+01	8.839E+01	6.123E+01	2.174E+01	7.372E-03	1.047E-04
IV= 14	2.551E-01	2.013E-01	6.539E-02	7.289E+01	1.074E+02	7.441E+01	2.813E+01	6.629E-03	8.706E-05
IV= 13	5.142E-01	4.796E-01	1.652E-01	5.767E+01	2.029E+02	1.429E+02	5.589E+01	3.853E-03	6.671E-05
IV= 12	1.962E-02	4.391E+01	8.593E+01	1.198E+02	3.998E+02	2.755E+02	1.114E+02	1.556E-03	4.950E-05
IV= 11	9.729E+03	1.413E+03	2.075E+02	1.719E+02	6.975E+02	4.827E+02	2.021E+02	6.050E-04	5.656E-05
IV= 10	3.476E+04	2.220E+04	1.932E+03	2.530E+02	9.369E+02	6.706E+02	2.926E+02	1.218E-03	2.825E-05
IV= 9	7.770E+04	5.397E+04	2.065E+04	6.140E+02	1.064E+03	7.929E+02	3.563E+02	2.969E-03	2.257E-05
IV= 8	1.546E+05	1.230E+05	6.176E+04	3.777E+03	1.241E+03	8.626E+02	3.835E+02	5.796E-03	1.792E-05
IV= 7	2.397E+05	2.095E+05	1.256E+05	1.291E+04	1.542E+03	8.620E+02	3.546E+02	8.126E-03	1.402E-05
IV= 6	3.003E+05	3.152E+05	2.559E+05	4.535E+04	2.410E+03	7.656E+02	2.865E+02	8.308E-03	1.095E-05
IV= 5	2.573E+05	3.252E+05	3.839E+05	1.182E+05	5.147E+03	6.256E+02	1.835E+02	6.049E-03	8.315E-06
IV= 4	3.225E+05	3.026E+05	3.150E+05	1.819E+05	1.312E+04	5.792E+02	9.534E+01	2.721E-03	5.902E-06
IV= 3	3.460E+05	3.316E+05	2.803E+05	1.067E+05	1.095E+04	5.166E+02	6.335E+01	1.350E-03	4.420E-06
IV= 2	2.322E+05	2.117E+05	1.513E+05	5.140E+04	6.837E+03	5.798E+02	2.421E+01	5.912E-03	3.204E-06
IV= 1	1.236E+02	4.732E+01	1.180E+01	1.260E+00	2.841E-01	1.904E-01	1.906E-01	3.511E-02	2.232E-06
IX*	1	2	3	4	5	6	7	8	9
FIELD VALUES OF H1									
IV= 23	3.250E+05	3.255E+05	3.261E+05	3.268E+05	3.273E+05	3.275E+05	3.271E+05	3.251E+05	3.198E+05
IV= 22	3.280E+05	3.286E+05	3.286E+05	3.287E+05	3.289E+05	3.291E+05	3.293E+05	3.295E+05	3.297E+05
IV= 21	3.271E+05	3.273E+05	3.274E+05	3.277E+05	3.279E+05	3.281E+05	3.284E+05	3.287E+05	3.295E+05
IV= 20	3.260E+05	3.260E+05	3.261E+05	3.263E+05	3.265E+05	3.267E+05	3.269E+05	3.270E+05	3.275E+05
IV= 19	3.242E+05	3.244E+05	3.245E+05	3.246E+05	3.246E+05	3.245E+05	3.242E+05	3.231E+05	3.266E+05
IV= 18	3.228E+05	3.217E+05	3.210E+05	3.204E+05	3.198E+05	3.196E+05	3.190E+05	3.163E+05	3.262E+05
IV= 17	3.210E+05	3.195E+05	3.186E+05	3.175E+05	3.167E+05	3.164E+05	3.169E+05	3.149E+05	3.262E+05
IV= 16	3.195E+05	3.170E+05	3.149E+05	3.125E+05	3.113E+05	3.126E+05	3.143E+05	3.133E+05	3.262E+05
IV= 15	3.191E+05	3.162E+05	3.134E+05	3.091E+05	3.096E+05	3.105E+05	3.124E+05	3.114E+05	3.262E+05
IV= 14	3.188E+05	3.162E+05	3.124E+05	3.094E+05	3.104E+05	3.108E+05	3.120E+05	3.105E+05	3.262E+05
IV= 13	3.187E+05	3.161E+05	3.122E+05	3.115E+05	3.129E+05	3.120E+05	3.109E+05	3.083E+05	3.262E+05
IV= 12	3.171E+05	3.160E+05	3.138E+05	3.151E+05	3.170E+05	3.145E+05	3.106E+05	3.057E+05	3.262E+05
IV= 11	3.303E+05	3.180E+05	3.156E+05	3.226E+05	3.239E+05	3.185E+05	3.114E+05	3.029E+05	3.262E+05
IV= 10	3.951E+05	3.471E+05	3.237E+05	3.391E+05	3.320E+05	3.220E+05	3.121E+05	3.011E+05	3.262E+05
IV= 9	6.020E+05	4.912E+05	4.030E+05	3.550E+05	3.386E+05	3.241E+05	3.120E+05	2.997E+05	3.262E+05
IV= 8	6.764E+05	6.045E+05	5.044E+05	3.739E+05	3.432E+05	3.246E+05	3.110E+05	2.985E+05	3.262E+05
IV= 7	7.083E+05	6.200E+05	4.915E+05	3.769E+05	3.440E+05	3.229E+05	3.087E+05	2.978E+05	3.262E+05
IV= 6	7.068E+05	6.222E+05	4.867E+05	3.767E+05	3.409E+05	3.197E+05	3.061E+05	2.975E+05	3.262E+05
IV= 5	6.924E+05	6.305E+05	5.120E+05	3.858E+05	3.378E+05	3.159E+05	3.029E+05	2.973E+05	3.262E+05
IV= 4	6.472E+05	6.161E+05	5.400E+05	4.082E+05	3.369E+05	3.129E+05	3.020E+05	2.973E+05	3.262E+05
IV= 3	5.900E+05	5.625E+05	5.003E+05	4.012E+05	3.346E+05	3.120E+05	3.023E+05	2.975E+05	3.262E+05
IV= 2	5.356E+05	5.105E+05	4.596E+05	3.870E+05	3.307E+05	3.117E+05	3.043E+05	3.012E+05	3.262E+05
IV= 1	4.574E+05	4.145E+05	3.679E+05	3.296E+05	3.179E+05	3.186E+05	3.194E+05	3.082E+05	3.262E+05
IX*	1	2	3	4	5	6	7	8	9
FIELD VALUES OF VIST									
IV= 23	1.184E-01	1.266E-01	1.345E-01	1.461E-01	1.586E-01	1.773E-01	2.502E-01	3.728E-01	6.556E-01
IV= 22	1.261E-02	1.457E-02	1.643E-02	1.842E-02	1.995E-02	2.165E-02	2.514E-02	2.412E-02	5.188E-03
IV= 21	9.113E-03	1.189E-02	1.496E-02	1.787E-02	1.982E-02	2.168E-02	2.343E-02	2.614E-02	4.895E-03
IV= 20	5.820E-03	8.764E-03	1.271E-02	1.602E-02	1.809E-02	1.960E-02	2.086E-02	2.319E-02	3.970E-03
IV= 19	8.366E-03	8.360E-03	1.187E-02	1.485E-02	1.668E-02	1.720E-02	1.722E-02	1.837E-02	3.421E-03
IV= 18	1.380E-02	1.234E-02	1.377E-02	1.517E-02	1.597E-02	1.605E-02	1.493E-02	1.419E-02	3.092E-03
IV= 17	1.987E-02	1.791E-02	1.821E-02	1.806E-02	1.755E-02	1.676E-02	1.488E-02	1.247E-02	2.918E-03
IV= 16	2.882E-02	2.596E-02	2.318E-02	1.559E-02	1.371E-02	1.383E-02	1.307E-02	1.073E-02	2.743E-03
IV= 15	3.635E-02	3.267E-02	2.446E-02	4.146E-01	6.191E-01	6.319E-01	4.476E-01	1.147E-02	2.605E-03
IV= 14	4.320E-02	3.993E-02	2.745E-02	3.962E-01	6.475E-01	6.957E-01	5.273E-01	1.107E-02	2.449E-03
IV= 13	5.458E-02	5.332E-02	3.738E-02	3.327E-01	8.153E-01	8.781E-01	6.599E-01	9.226E-03	2.241E-03
IV= 12	9.080E-02	9.196E-02	2.628E-01	4.406E-01	1.100E+00	1.135E+00	8.509E-01	6.831E-03	2.029E-03
IV= 11	7.946E-01	3.725E-01	3.296E-01	4.762E-01	1.329E+00	1.380E+00	1.039E+00	4.986E-03	1.854E-03
IV= 10	1.555E+00	1.271E+00	3.602E-01	5.658E-01	1.466E+00	1.524E+00	1.155E+00	6.296E-03	1.683E-03
IV= 9	2.318E+00	1.878E+00	1.074E+00	7.540E-01	1.571E+00	1.619E+00	1.230E+00	8.473E-03	1.562E-03
IV= 8	3.793E+00	3.228E+00	2.093E+00	1.256E+00	1.756E+00	1.696E+00	1.267E+00	1.059E-02	1.446E-03
IV= 7	5.292E+00	4.580E+00	3.158E+00	2.589E+00	2.154E+00	1.752E+00	1.232E+00	1.185E-02	1.333E-03
IV= 6	6.675E+00	6.100E+00	4.901E+00	3.695E+00	2.906E+00	1.919E+00	1.087E+00	1.194E-02	1.227E-03
IV= 5	7.841E+00	7.150E+00	6.071E+00	4.794E+00	3.862E+00	2.623E+00	8.484E-01	1.074E-02	1.120E-03

IV= 6	1.046E+01	9.345E+00	7.220E+00	5.479E+00	3.331E+00	3.516E+00	9.687E-01	8.230E-03	9.988E-04
IV= 5	9.491E+00	8.690E+00	7.099E+00	5.100E+00	3.142E+00	3.419E+00	9.580E-01	6.516E-03	9.070E-04
IV= 2	8.037E+00	7.555E+00	6.437E+00	4.529E+00	2.804E+00	3.141E+00	4.428E-01	1.066E-02	8.148E-04
IV= 1	3.022E-01	2.195E-01	1.381E-01	6.553E-02	3.989E-02	3.491E-02	3.492E-02	1.958E-02	7.222E-04
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IV= 23	3.237E+02	3.242E+02	3.248E+02	3.255E+02	3.260E+02	3.262E+02	3.258E+02	3.258E+02	3.185E+02
IV= 22	3.269E+02	3.271E+02	3.273E+02	3.274E+02	3.276E+02	3.278E+02	3.279E+02	3.282E+02	3.2962E+02
IV= 21	3.258E+02	3.260E+02	3.261E+02	3.263E+02	3.266E+02	3.268E+02	3.271E+02	3.273E+02	3.2963E+02
IV= 20	3.247E+02	3.247E+02	3.248E+02	3.250E+02	3.252E+02	3.254E+02	3.256E+02	3.254E+02	3.2958E+02
IV= 19	3.230E+02	3.231E+02	3.232E+02	3.233E+02	3.233E+02	3.232E+02	3.230E+02	3.218E+02	3.2954E+02
IV= 18	3.215E+02	3.204E+02	3.198E+02	3.191E+02	3.186E+02	3.181E+02	3.177E+02	3.151E+02	3.2950E+02
IV= 17	3.198E+02	3.182E+02	3.173E+02	3.162E+02	3.155E+02	3.152E+02	3.156E+02	3.156E+02	3.2950E+02
IV= 16	3.182E+02	3.157E+02	3.137E+02	3.113E+02	3.100E+02	3.114E+02	3.150E+02	3.120E+02	3.2950E+02
IV= 15	3.178E+02	3.150E+02	3.121E+02	3.079E+02	3.084E+02	3.092E+02	3.112E+02	3.102E+02	3.2950E+02
IV= 14	3.176E+02	3.149E+02	3.112E+02	3.081E+02	3.091E+02	3.095E+02	3.107E+02	3.092E+02	3.2950E+02
IV= 13	3.174E+02	3.149E+02	3.109E+02	3.103E+02	3.116E+02	3.107E+02	3.097E+02	3.071E+02	3.2950E+02
IV= 12	3.158E+02	3.147E+02	3.126E+02	3.138E+02	3.157E+02	3.132E+02	3.094E+02	3.044E+02	3.2950E+02
IV= 11	3.289E+02	3.168E+02	3.143E+02	3.213E+02	3.226E+02	3.172E+02	3.102E+02	3.017E+02	3.2950E+02
IV= 10	3.955E+02	3.458E+02	3.224E+02	3.377E+02	3.507E+02	3.208E+02	3.108E+02	2.999E+02	3.2950E+02
IV= 9	5.996E+02	4.893E+02	4.014E+02	3.556E+02	3.573E+02	3.228E+02	3.107E+02	2.985E+02	3.2950E+02
IV= 8	6.737E+02	6.021E+02	5.024E+02	3.725E+02	3.418E+02	3.235E+02	3.097E+02	2.973E+02	3.2950E+02
IV= 7	7.055E+02	6.176E+02	4.896E+02	3.754E+02	3.426E+02	3.216E+02	3.075E+02	2.966E+02	3.2950E+02
IV= 6	7.040E+02	6.197E+02	4.847E+02	3.752E+02	3.396E+02	3.184E+02	3.049E+02	2.963E+02	3.2950E+02
IV= 5	6.896E+02	6.280E+02	5.100E+02	3.843E+02	3.365E+02	3.147E+02	3.017E+02	2.962E+02	3.2950E+02
IV= 4	6.447E+02	6.136E+02	5.379E+02	4.066E+02	3.356E+02	3.117E+02	3.008E+02	2.961E+02	3.2950E+02
IV= 3	5.877E+02	5.603E+02	4.983E+02	3.996E+02	3.333E+02	3.107E+02	3.011E+02	2.963E+02	3.2950E+02
IV= 2	5.334E+02	5.085E+02	4.578E+02	3.854E+02	3.294E+02	3.105E+02	3.031E+02	3.000E+02	3.2950E+02
IV= 1	4.556E+02	4.128E+02	3.665E+02	3.282E+02	3.167E+02	3.173E+02	3.181E+02	3.069E+02	3.2950E+02
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1									
IV= 23	1.094E+00	1.093E+00	1.091E+00	1.089E+00	1.087E+00	1.086E+00	1.087E+00	1.094E+00	1.112E+00
IV= 22	1.084E+00	1.083E+00	1.083E+00	1.082E+00	1.082E+00	1.081E+00	1.080E+00	1.080E+00	1.196E+00
IV= 21	1.087E+00	1.087E+00	1.086E+00	1.086E+00	1.085E+00	1.084E+00	1.083E+00	1.082E+00	1.196E+00
IV= 20	1.091E+00	1.091E+00	1.091E+00	1.090E+00	1.089E+00	1.089E+00	1.088E+00	1.089E+00	1.198E+00
IV= 19	1.097E+00	1.097E+00	1.096E+00	1.096E+00	1.096E+00	1.096E+00	1.097E+00	1.101E+00	1.199E+00
IV= 18	1.102E+00	1.105E+00	1.108E+00	1.110E+00	1.112E+00	1.114E+00	1.115E+00	1.124E+00	1.201E+00
IV= 17	1.108E+00	1.113E+00	1.116E+00	1.120E+00	1.123E+00	1.124E+00	1.122E+00	1.130E+00	1.201E+00
IV= 16	1.113E+00	1.122E+00	1.129E+00	1.138E+00	1.143E+00	1.138E+00	1.132E+00	1.135E+00	1.201E+00
IV= 15	1.114E+00	1.124E+00	1.135E+00	1.150E+00	1.164E+00	1.166E+00	1.138E+00	1.142E+00	1.201E+00
IV= 14	1.115E+00	1.124E+00	1.138E+00	1.149E+00	1.146E+00	1.144E+00	1.140E+00	1.146E+00	1.201E+00
IV= 13	1.115E+00	1.124E+00	1.139E+00	1.141E+00	1.156E+00	1.140E+00	1.144E+00	1.153E+00	1.201E+00
IV= 12	1.120E+00	1.124E+00	1.132E+00	1.128E+00	1.121E+00	1.131E+00	1.145E+00	1.164E+00	1.201E+00
IV= 11	1.075E+00	1.117E+00	1.125E+00	1.101E+00	1.097E+00	1.116E+00	1.142E+00	1.174E+00	1.201E+00
IV= 10	8.979E-01	1.022E+00	1.096E+00	1.047E+00	1.070E+00	1.104E+00	1.140E+00	1.181E+00	1.201E+00
IV= 9	5.899E-01	7.223E-01	8.806E-01	1.000E+00	1.049E+00	1.097E+00	1.140E+00	1.187E+00	1.201E+00
IV= 8	5.254E-01	5.875E-01	7.039E-01	9.495E-01	1.035E+00	1.095E+00	1.144E+00	1.192E+00	1.201E+00
IV= 7	5.026E-01	5.734E-01	7.224E-01	9.417E-01	1.033E+00	1.101E+00	1.152E+00	1.194E+00	1.201E+00
IV= 6	5.042E-01	5.718E-01	7.297E-01	9.423E-01	1.042E+00	1.112E+00	1.162E+00	1.195E+00	1.201E+00
IV= 5	5.149E-01	5.644E-01	6.943E-01	9.202E-01	1.052E+00	1.125E+00	1.174E+00	1.196E+00	1.201E+00
IV= 4	5.507E-01	5.780E-01	6.591E-01	8.706E-01	1.055E+00	1.136E+00	1.177E+00	1.196E+00	1.201E+00
IV= 3	6.037E-01	6.327E-01	7.111E-01	8.860E-01	1.062E+00	1.139E+00	1.176E+00	1.195E+00	1.201E+00
IV= 2	6.643E-01	6.966E-01	7.736E-01	9.185E-01	1.075E+00	1.140E+00	1.168E+00	1.180E+00	1.201E+00
IV= 1	7.772E-01	8.576E-01	9.660E-01	1.078E+00	1.118E+00	1.113E+00	1.154E+00	1.154E+00	1.201E+00
IX= 1	2	3	4	5	6	7	8	9	

 TIME STP# 1 SWEEP NO 70 ZSLAB NO 44 ITERM NO 1

FLOW FIELD AT ITHYD= 1, IZ= 44, ISWEEP= 70, ISTEP= 1
 FIELD VALUES OF P1

IV= 23	5.588E+00	5.485E+00	5.329E+00	5.146E+00	5.061E+00	5.221E+00	5.719E+00	5.967E+00	5.735E+00
IV= 22	3.387E+00	3.171E+00	2.855E+00	2.518E+00	2.314E+00	2.393E+00	2.811E+00	3.281E+00	-1.305E+00
IV= 21	1.271E-01	-2.154E-01	-6.450E-01	-9.796E-01	-8.761E-01	-2.333E-01	7.510E-01	1.527E+00	-1.051E+00
IV= 20	-3.337E+00	-3.750E+00	-4.250E+00	-4.652E+00	-4.557E+00	-3.838E+00	-2.515E+00	-1.309E+00	-9.342E+01
IV= 19	-7.712E+00	-8.135E+00	-8.585E+00	-8.900E+00	-8.711E+00	-7.957E+00	-6.404E+00	-4.486E+00	-8.477E+01
IV= 18	-1.114E+01	-1.149E+01	-1.162E+01	-1.152E+01	-1.147E+01	-1.140E+01	-1.061E+01	-8.681E+00	-8.168E+01

IV=	17	-1.273E+01	-1.315E+01	-1.319E+01	-1.292E+01	-1.293E+01	-1.314E+01	-1.240E+01	-9.486E+00	-7.932E-01
IV=	16	-1.501E+01	-1.572E+01	-1.572E+01	-1.508E+01	-1.443E+01	-1.460E+01	-1.384E+01	-1.052E+01	-7.716E-01
IV=	15	-1.917E+01	-2.008E+01	-2.006E+01	-1.810E+01	-1.579E+01	-1.484E+01	-1.452E+01	-1.153E+01	-7.596E-01
IV=	14	-2.453E+01	-2.622E+01	-2.690E+01	-2.425E+01	-1.946E+01	-1.624E+01	-1.499E+01	-1.193E+01	-7.390E-01
IV=	13	-3.608E+01	-3.993E+01	-4.029E+01	-3.550E+01	-2.610E+01	-1.920E+01	-1.653E+01	-1.321E+01	-7.198E-01
IV=	12	-5.151E+01	-6.243E+01	-6.134E+01	-5.220E+01	-3.582E+01	-2.362E+01	-1.850E+01	-1.459E+01	-7.026E-01
IV=	11	-6.176E+01	-6.473E+01	-7.540E+01	-6.834E+01	-4.638E+01	-2.896E+01	-2.089E+01	-1.622E+01	-6.901E-01
IV=	10	1.959E+00	-4.916E+01	-8.560E+01	-7.896E+01	-5.559E+01	-3.465E+01	-2.376E+01	-1.804E+01	-6.820E-01
IV=	9	5.635E+01	-1.081E+01	-7.096E+01	-8.808E+01	-6.449E+01	-4.097E+01	-2.746E+01	-2.000E+01	-6.753E-01
IV=	8	1.000E+02	8.163E+00	-6.899E+00	-1.036E+02	-7.605E+01	-4.849E+01	-3.253E+01	-2.251E+01	-6.695E-01
IV=	7	1.413E+02	1.976E+01	-7.213E+01	-1.258E+02	-9.156E+01	-5.717E+01	-3.906E+01	-2.555E+01	-6.643E-01
IV=	6	2.100E+02	6.473E+01	-4.717E+01	-1.281E+02	-1.020E+02	-6.635E+01	-4.581E+01	-2.861E+01	-6.603E-01
IV=	5	2.518E+02	1.139E+02	4.046E+00	-9.942E+01	-1.049E+02	-7.403E+01	-5.289E+01	-3.156E+01	-6.562E-01
IV=	4	1.917E+02	1.099E+02	5.241E+01	-5.924E+01	-9.910E+01	-7.889E+01	-5.871E+01	-3.400E+01	-6.524E-01
IV=	3	1.162E+02	5.343E+01	5.77E+00	-6.959E+01	-1.001E+02	-8.166E+01	-6.117E+01	-3.456E+01	-6.509E-01
IV=	2	2.043E+01	-2.149E+01	-5.083E+01	-8.681E+01	-1.023E+02	-8.556E+01	-6.306E+01	-3.555E+01	-6.482E-01
IV=	1	-6.607E+01	-8.112E+01	-9.934E+01	-1.109E+02	-1.074E+02	-9.114E+01	-6.841E+01	-3.643E+01	-6.480E-01
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF UI										
IV=	23	-1.425E-02	-6.714E-02	-2.139E-01	-5.971E-01	-5.903E-01	-5.882E-01	-2.414E-01	6.095E-02	
IV=	22	-7.566E-02	-1.649E-01	-3.007E-01	-4.296E-01	-4.969E-01	-4.003E-01	-1.572E-01	2.960E-08	
IV=	21	-1.167E-01	-2.639E-01	-4.805E-01	-6.336E-01	-6.184E-01	-4.419E-01	-1.738E-01	1.055E-11	
IV=	20	-1.301E-01	-2.814E-01	-4.930E-01	-6.401E-01	-6.618E-01	-5.601E-01	-3.619E-01	9.683E-12	
IV=	19	-1.016E-01	-2.496E-01	-4.583E-01	-5.860E-01	-6.334E-01	-6.610E-01	-5.829E-01	1.422E-10	
IV=	18	-1.846E-01	-4.202E-01	-6.856E-01	-7.763E-01	-8.020E-01	-8.851E-01	-8.462E-01	8.483E-10	
IV=	17	-3.343E-01	-6.984E-01	-1.085E+00	-1.210E+00	-1.166E+00	-1.207E+00	-1.131E+00	1.610E-10	
IV=	16	-6.302E-01	-1.218E+00	-1.850E+00	-1.856E+00	-1.506E+00	-1.448E+00	-1.291E+00	6.135E-11	
IV=	15	-8.069E-01	-1.556E+00	-2.221E+00	-1.912E+00	-1.519E+00	-1.529E+00	-1.377E+00	5.563E-12	
IV=	14	-1.123E+00	-2.025E+00	-2.900E+00	-2.605E+00	-2.023E+00	-1.801E+00	-1.471E+00	2.109E-13	
IV=	13	-1.672E+00	-3.104E+00	-4.170E+00	-3.913E+00	-2.896E+00	-2.244E+00	-1.655E+00	6.370E-15	
IV=	12	-2.237E+00	-4.421E+00	-5.847E+00	-5.242E+00	-3.766E+00	-2.743E+00	-1.875E+00	9.787E-15	
IV=	11	-1.423E+00	-3.213E+00	-6.152E+00	-6.020E+00	-4.433E+00	-3.213E+00	-2.108E+00	1.601E-14	
IV=	10	-2.974E+00	-4.153E+00	-6.226E+00	-6.614E+00	-5.032E+00	-3.663E+00	-2.329E+00	1.923E-14	
IV=	9	-3.388E+00	-4.546E+00	-5.747E+00	-7.371E+00	-5.770E+00	-4.155E+00	-2.584E+00	2.591E-14	
IV=	8	-3.634E+00	-5.062E+00	-6.308E+00	-8.501E+00	-6.796E+00	-4.780E+00	-2.966E+00	3.554E-14	
IV=	7	-4.815E+00	-6.890E+00	-8.511E+00	-8.013E+01	-8.066E+00	-5.625E+00	-3.425E+00	4.595E-14	
IV=	6	-5.446E+00	-7.836E+00	-9.184E+00	-1.064E+01	-8.961E+00	-6.524E+00	-3.943E+00	4.965E-14	
IV=	5	-4.484E+00	-6.538E+00	-7.338E+00	-9.495E+00	-9.332E+00	-7.236E+00	-4.517E+00	6.571E-14	
IV=	4	-2.628E+00	-3.935E+00	-3.979E+00	-7.037E+00	-9.077E+00	-7.627E+00	-5.062E+00	7.804E-14	
IV=	3	-1.769E+00	-2.894E+00	-3.770E+00	-6.478E+00	-8.905E+00	-7.793E+00	-5.231E+00	3.670E-14	
IV=	2	-1.528E+00	-2.652E+00	-4.207E+00	-6.400E+00	-8.739E+00	-7.923E+00	-5.348E+00	1.031E-13	
IV=	1	-2.027E+00	-4.003E+00	-6.346E+00	-8.088E+00	-8.126E+00	-6.112E+00	-4.154E+00	5.760E-11	
IX=	1	2	3	4	5	6	7	8		
FIELD VALUES OF VI										
IV=	22	1.474E+00	1.314E+00	1.047E+00	8.755E-01	9.729E-01	1.539E+00	2.554E+00	3.802E+00	2.859E-01
IV=	21	1.037E+00	9.759E-01	8.032E-01	7.330E-01	9.998E-01	1.942E+00	3.466E+00	5.808E+00	8.688E-01
IV=	20	1.012E+00	-6.682E-02	-2.145E-01	-1.089E-01	4.885E-01	1.865E+00	3.697E+00	5.962E+00	7.474E-01
IV=	19	-1.169E+00	-1.119E+00	-1.091E+00	-7.275E-01	1.227E-01	1.653E+00	3.562E+00	5.490E+00	6.357E-01
IV=	18	-2.225E+00	-2.029E+00	-1.730E+00	-1.093E+00	-1.619E-01	1.204E+00	2.984E+00	4.491E+00	5.353E-01
IV=	17	-2.609E+00	-2.320E+00	-1.825E+00	-9.672E-01	3.754E-02	1.245E+00	2.776E+00	3.900E+00	4.996E-01
IV=	16	-3.080E+00	-2.661E+00	-1.916E+00	-7.623E-01	3.616E-01	1.334E+00	2.534E+00	3.456E+00	4.648E-01
IV=	15	-3.871E+00	-3.329E+00	-2.334E+00	-7.048E-01	5.148E-01	1.199E+00	2.189E+00	3.016E+00	4.302E-01
IV=	14	-4.437E+00	-3.798E+00	-2.717E+00	-8.757E-01	1.460E-01	7.278E-01	1.754E+00	2.723E+00	4.102E-01
IV=	13	-5.578E+00	-4.781E+00	-3.438E+00	-1.458E+00	-4.619E-01	-1.847E-02	9.750E-01	2.159E+00	3.703E-01
IV=	12	-2.509E+00	-2.439E+00	-4.246E+00	-2.189E+00	-1.042E+00	-6.651E-01	2.319E-01	1.556E+00	3.297E-01
IV=	11	1.482E+01	7.534E+00	-1.625E+00	-2.483E+00	-1.685E+00	-1.396E+00	-5.621E-01	9.195E-01	2.884E-01
IV=	10	2.879E+01	1.899E+01	4.377E+00	-2.422E+00	-2.556E+00	-2.243E+00	-1.346E+00	3.454E-01	2.539E-01
IV=	9	3.954E+01	2.963E+01	1.226E+01	-1.458E+00	-3.346E+00	-3.000E+00	-2.005E+00	-1.202E-01	2.290E-01
IV=	8	4.594E+01	3.646E+01	1.829E+01	-5.676E-03	-3.920E+00	-3.708E+00	-2.637E+00	-5.429E-01	2.060E-01
IV=	7	4.846E+01	3.941E+01	2.130E+01	1.267E+00	-4.102E+00	-4.245E+00	-3.195E+00	-8.785E-01	1.831E-01
IV=	6	4.677E+01	3.905E+01	2.299E+01	4.051E+00	-3.266E+00	-4.318E+00	-3.486E+00	-1.071E+00	1.604E-01
IV=	5	3.956E+01	3.448E+01	2.273E+01	6.907E+00	-1.751E+00	-3.899E+00	-3.333E+00	-1.089E+00	1.400E-01
IV=	4	2.524E+01	2.336E+01	1.815E+01	8.085E+00	-1.783E-02	-3.064E+00	-2.677E+00	-8.777E-01	1.153E-01
IV=	3	1.322E+01	1.196E+01	8.890E+00	4.955E+00	3.101E-01	-2.198E+00	-1.821E+00	-3.922E-01	8.701E-02
IV=	2	9.246E+00	8.395E+00	6.294E+00	3.659E+00	1.773E-01	-1.899E+00	-1.417E+00	-1.393E-01	7.365E-02
IV=	1	3.559E+00	3.473E+00	2.500E+00	1.054E+00	-6.477E-01	-1.390E+00	-3.607E-01	6.766E-01	3.622E-02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF W1										

IV= 23	1.271E+00	1.115E+00	8.483E-01	5.219E-01	1.923E-01	-2.026E-01	-6.618E-01	-9.997E-01	-2.041E-06
IV= 22	1.882E+00	1.580E+00	1.166E+00	7.073E-01	2.195E-01	-3.775E-01	-1.033E+00	-2.115E+00	-2.517E-01
IV= 21	2.079E+00	1.620E+00	9.758E-01	2.196E-01	-4.941E-01	-1.096E+00	-1.786E+00	-3.062E+00	-4.858E-02
IV= 20	2.168E+00	1.670E+00	1.014E+00	2.807E-01	-4.031E-01	-1.111E+00	-2.057E+00	-3.617E+00	-2.162E-02
IV= 19	2.044E+00	1.521E+00	8.511E-01	1.354E-01	-6.979E-01	-1.161E+00	-2.319E+00	-4.025E+00	-1.370E-02
IV= 18	1.911E+00	1.382E+00	7.348E-01	1.922E-01	-1.889E-02	-5.667E-01	-2.225E+00	-4.251E+00	-1.046E-02
IV= 17	1.629E+00	1.150E+00	6.403E-01	4.450E-01	5.334E-01	-1.068E-01	-2.121E+00	-4.297E+00	-3.118E-03
IV= 16	1.081E+00	7.924E-01	6.973E-01	1.224E+00	1.746E+00	7.532E-01	-1.819E+00	-4.268E+00	3.216E-03
IV= 15	4.770E-01	4.387E-01	8.478E-01	2.349E+00	3.191E+00	1.775E+00	-1.331E+00	-4.203E+00	8.746E-03
IV= 14	-2.098E-01	-6.347E-02	1.062E+00	3.190E+00	3.988E+00	2.284E+00	-1.069E+00	-4.159E+00	1.236E-02
IV= 13	1.025E+01	4.934E+00	2.003E+00	4.190E+00	5.300E+00	3.203E+00	-3.736E-01	-3.966E+00	1.699E-02
IV= 12	2.652E+01	1.840E+01	7.538E+00	5.937E+00	7.340E+00	4.631E+00	5.185E-01	-3.727E+00	2.090E-02
IV= 11	5.409E+01	4.114E+01	2.116E+01	1.051E+01	1.018E+01	6.500E+00	1.540E+00	-3.472E+00	2.419E-02
IV= 10	9.128E+01	7.204E+01	4.110E+01	1.846E+01	1.277E+01	7.937E+00	2.175E+00	-3.344E+00	2.694E-02
IV= 9	1.349E+02	1.087E+02	6.463E+01	2.722E+01	1.491E+01	8.816E+00	2.463E+00	-3.513E+00	2.895E-02
IV= 8	1.798E+02	1.474E+02	8.962E+01	3.723E+01	1.690E+01	9.117E+00	2.362E+00	-3.306E+00	3.056E-02
IV= 7	2.249E+02	1.839E+02	1.102E+02	4.714E+01	1.866E+01	8.694E+00	1.787E+00	-3.324E+00	3.184E-02
IV= 6	2.674E+02	2.207E+02	1.376E+02	5.888E+01	2.090E+01	7.981E+00	1.057E+00	-3.324E+00	3.276E-02
IV= 5	2.873E+02	2.453E+02	1.623E+02	7.193E+01	2.403E+01	7.133E+00	1.283E+01	-3.334E+00	3.326E-02
IV= 4	2.484E+02	2.251E+02	1.694E+02	8.110E+01	2.680E+01	6.057E+00	-1.116E+00	-5.520E+00	3.316E-02
IV= 3	1.911E+02	1.728E+02	1.317E+02	6.923E+01	2.421E+01	4.752E+00	-2.110E+00	-3.909E+00	3.194E-02
IV= 2	1.357E+02	1.213E+02	9.258E+01	5.267E+01	1.937E+01	2.583E+00	-4.565E+00	-5.436E+00	3.122E-02
IV= 1	7.905E+01	5.639E+01	3.484E+01	1.571E+01	4.517E+00	-3.111E+00	-8.780E+00	-7.801E+00	2.682E-02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF KE									
IV= 23	1.074E+00	1.114E+00	1.300E+00	1.549E+00	1.812E+00	2.196E+00	2.765E+00	4.237E+00	1.135E+01
IV= 22	4.201E-01	5.526E-01	8.021E-01	1.094E+00	1.359E+00	1.690E+00	1.798E+00	1.473E-01	3.164E-03
IV= 21	5.755E-01	8.377E-01	1.217E+00	1.610E+00	2.018E+00	2.618E+00	2.766E+00	2.262E-01	4.971E-03
IV= 20	6.339E-01	1.009E+00	1.519E+00	2.139E+00	2.808E+00	3.521E+00	3.357E+00	2.350E-01	3.746E-03
IV= 19	7.371E-01	1.218E+00	1.629E+00	2.600E+00	3.473E+00	4.197E+00	3.725E+00	2.125E-01	2.776E-03
IV= 18	9.491E-01	1.577E+00	2.380E+00	3.536E+00	4.631E+00	4.852E+00	3.846E+00	1.866E-01	2.223E-03
IV= 17	1.610E+00	2.514E+00	3.699E+00	5.245E+00	5.966E+00	5.507E+00	3.818E+00	1.689E-01	1.959E-03
IV= 16	3.142E+00	4.446E+00	6.229E+00	8.288E+00	8.877E+00	7.710E+00	4.293E+00	1.529E-01	1.713E-03
IV= 15	4.516E+00	6.418E+00	9.531E+00	1.373E+01	1.551E+01	1.256E+01	5.675E+00	1.392E-01	1.531E-03
IV= 14	8.645E+00	1.155E+01	1.495E+01	1.767E+01	1.935E+01	1.520E+01	6.644E+00	1.261E-01	1.342E-03
IV= 13	5.855E+01	2.324E+01	2.001E+01	2.432E+01	2.973E+01	2.291E+01	1.035E+01	1.057E-01	1.106E-03
IV= 12	3.724E+02	2.225E+02	5.717E+01	3.676E+01	4.744E+01	3.640E+01	1.735E+01	8.663E-02	8.875E-04
IV= 11	8.669E+02	6.514E+02	2.657E+02	5.737E+01	6.901E+01	5.377E+01	2.749E+01	7.126E-02	7.050E-04
IV= 10	1.656E+03	1.350E+03	7.302E+02	1.601E+02	8.950E+01	6.763E+01	3.481E+01	6.467E-02	5.758E-04
IV= 9	2.612E+03	2.242E+03	1.443E+03	4.029E+02	1.216E+03	7.860E+01	3.902E+01	6.408E-02	4.805E-04
IV= 8	3.621E+03	3.287E+03	2.376E+03	8.243E+02	1.926E+02	9.070E+01	4.002E+01	6.592E-02	3.967E-04
IV= 7	4.689E+03	4.476E+03	3.519E+03	1.447E+03	3.137E+02	1.076E+02	3.716E+01	6.887E-02	3.207E-04
IV= 6	5.367E+03	5.454E+03	4.775E+03	2.241E+03	4.997E+02	1.341E+02	3.670E+01	7.003E-02	2.557E-04
IV= 5	5.364E+03	5.625E+03	5.487E+03	3.020E+03	7.429E+02	1.672E+02	4.116E+01	6.933E-02	1.952E-04
IV= 4	5.918E+02	5.619E+03	5.195E+03	3.321E+03	9.323E+02	1.937E+02	4.278E+01	7.303E-02	1.338E-04
IV= 3	5.418E+03	5.110E+03	4.383E+03	2.596E+03	8.071E+02	1.818E+02	3.623E+01	8.624E-02	9.283E-05
IV= 2	3.998E+03	3.759E+03	3.083E+03	1.756E+03	5.959E+02	1.505E+02	1.586E+01	1.574E-01	5.365E-05
IV= 1	2.200E+01	1.177E+01	4.899E+00	1.314E+00	4.176E-01	3.012E-01	4.942E-01	3.149E-01	2.981E-05
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF EP									
IV= 23	5.751E-01	5.637E-01	6.616E-01	8.308E-01	1.062E+00	1.522E+00	2.319E+00	4.448E+00	1.695E+01
IV= 22	2.361E-01	2.882E-01	4.264E-01	6.168E-01	8.657E-01	1.523E+00	1.740E+00	7.767E-02	2.565E-06
IV= 21	3.544E-01	4.989E-01	7.469E-01	1.079E+00	1.585E+00	2.623E+00	3.501E+00	1.478E-01	5.053E-04
IV= 20	4.111E-01	6.507E-01	1.027E+00	1.639E+00	2.560E+00	4.016E+00	4.452E+00	1.565E-01	3.306E-04
IV= 19	4.710E-01	8.263E-01	1.328E+00	2.225E+00	3.606E+00	5.247E+00	5.344E+00	1.345E-01	2.109E-04
IV= 18	6.247E-01	1.147E+00	1.896E+00	3.363E+00	5.318E+00	6.296E+00	5.926E+00	1.107E-01	1.511E-04
IV= 17	1.234E+00	2.225E+00	5.736E+00	6.360E+00	8.178E+00	7.684E+00	5.962E+00	9.531E-02	1.250E-04
IV= 16	3.318E+00	5.632E+00	9.323E+00	1.458E+01	1.674E+01	1.282E+01	6.818E+00	8.208E-02	1.022E-04
IV= 15	5.824E+00	1.062E+01	2.021E+01	3.530E+01	4.015E+01	2.692E+01	9.399E+00	7.132E-02	8.637E-05
IV= 14	3.263E+01	2.969E+01	3.725E+01	4.828E+01	5.299E+01	3.425E+01	1.157E+01	6.152E-02	7.088E-05
IV= 13	9.506E+02	1.015E+02	5.541E+01	7.645E+01	9.982E+01	6.379E+01	2.163E+01	4.721E-02	5.304E-05
IV= 12	9.594E+03	4.736E+03	2.996E+02	1.411E+02	1.981E+02	1.270E+02	4.556E+01	3.502E-02	3.812E-05
IV= 11	3.042E+04	2.039E+04	5.097E+03	2.824E+02	3.490E+02	2.291E+02	8.819E+01	2.613E-02	2.698E-05
IV= 10	7.260E+04	5.495E+04	2.208E+04	1.520E+03	4.958E+02	3.231E+02	1.274E+02	2.259E-02	1.992E-05
IV= 9	1.322E+05	1.085E+05	5.725E+04	7.265E+03	6.837E+02	3.947E+02	1.553E+02	2.228E-02	1.518E-05
IV= 8	1.988E+05	1.776E+05	1.129E+05	2.082E+04	1.232E+03	4.504E+02	1.670E+02	2.325E-02	1.139E-05
IV= 7	2.710E+05	2.621E+05	1.918E+05	4.549E+04	2.809E+03	4.859E+02	1.543E+02	2.482E-02	8.279E-06
IV= 6	3.089E+05	3.362E+05	2.938E+05	8.659E+04	6.643E+03	5.396E+02	1.298E+02	2.545E-02	5.895E-06

IV= 5	2.786E+05	3.272E+05	3.514E+05	1.353E+05	1.388E+06	7.181E+02	1.049E+02	2.507E-02	3.931E-06
IV= 4	2.990E+05	2.890E+05	2.894E+05	1.539E+05	2.138E+06	9.684E+02	8.585E+01	2.710E-02	2.231E-06
IV= 3	2.760E+05	2.610E+05	2.216E+05	1.019E+05	1.667E+06	8.756E+02	7.149E+01	3.479E-02	1.289E-06
IV= 2	1.779E+05	1.647E+05	1.252E+05	5.258E+04	9.949E+03	6.298E+02	4.780E+01	8.577E-02	5.666E-07
IV= 1	1.387E+02	5.426E+01	1.458E+01	2.034E+00	3.628E-01	2.222E-01	4.670E-01	2.402E-01	2.347E-07
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF HI									
IV= 23	3.276E+05	3.279E+05	3.284E+05	3.288E+05	3.291E+05	3.292E+05	3.290E+05	3.283E+05	3.258E+05
IV= 22	3.287E+05	3.290E+05	3.294E+05	3.297E+05	3.297E+05	3.297E+05	3.297E+05	3.305E+05	2.968E+05
IV= 21	3.287E+05	3.291E+05	3.294E+05	3.295E+05	3.294E+05	3.296E+05	3.302E+05	3.311E+05	2.967E+05
IV= 20	3.286E+05	3.290E+05	3.294E+05	3.296E+05	3.298E+05	3.304E+05	3.311E+05	3.305E+05	2.964E+05
IV= 19	3.285E+05	3.287E+05	3.292E+05	3.297E+05	3.301E+05	3.307E+05	3.314E+05	3.284E+05	2.962E+05
IV= 18	3.281E+05	3.285E+05	3.288E+05	3.288E+05	3.283E+05	3.290E+05	3.303E+05	3.258E+05	2.962E+05
IV= 17	3.268E+05	3.270E+05	3.270E+05	3.260E+05	3.257E+05	3.273E+05	3.293E+05	3.253E+05	2.962E+05
IV= 16	3.240E+05	3.237E+05	3.232E+05	3.217E+05	3.221E+05	3.250E+05	3.281E+05	3.244E+05	2.962E+05
IV= 15	3.218E+05	3.210E+05	3.200E+05	3.187E+05	3.197E+05	3.228E+05	3.267E+05	3.235E+05	2.962E+05
IV= 14	3.192E+05	3.175E+05	3.164E+05	3.168E+05	3.187E+05	3.219E+05	3.258E+05	3.230E+05	2.962E+05
IV= 13	3.191E+05	3.158E+05	3.144E+05	3.159E+05	3.180E+05	3.204E+05	3.236E+05	3.216E+05	2.962E+05
IV= 12	3.308E+05	3.217E+05	3.153E+05	3.168E+05	3.180E+05	3.188E+05	3.210E+05	3.199E+05	2.962E+05
IV= 11	3.772E+05	3.505E+05	3.256E+05	3.218E+05	3.198E+05	3.178E+05	3.181E+05	3.180E+05	2.962E+05
IV= 10	4.785E+05	4.232E+05	3.618E+05	3.356E+05	3.233E+05	3.175E+05	3.166E+05	3.166E+05	2.962E+05
IV= 9	6.089E+05	5.343E+05	4.354E+05	3.549E+05	3.274E+05	3.174E+05	3.156E+05	3.151E+05	2.962E+05
IV= 8	6.525E+05	5.884E+05	4.840E+05	3.730E+05	3.314E+05	3.175E+05	3.147E+05	3.139E+05	2.962E+05
IV= 7	6.610E+05	5.925E+05	4.831E+05	3.799E+05	3.340E+05	3.174E+05	3.140E+05	3.126E+05	2.962E+05
IV= 6	6.555E+05	5.928E+05	4.888E+05	3.873E+05	3.360E+05	3.175E+05	3.139E+05	3.114E+05	2.962E+05
IV= 5	6.408E+05	5.930E+05	5.028E+05	3.993E+05	3.388E+05	3.179E+05	3.142E+05	3.102E+05	2.962E+05
IV= 4	6.037E+05	5.740E+05	5.086E+05	4.119E+05	3.426E+05	3.191E+05	3.154E+05	3.099E+05	2.962E+05
IV= 3	5.595E+05	5.347E+05	4.814E+05	4.031E+05	3.418E+05	3.211E+05	3.175E+05	3.112E+05	2.962E+05
IV= 2	5.149E+05	4.927E+05	4.488E+05	3.885E+05	3.397E+05	3.252E+05	3.252E+05	3.191E+05	2.962E+05
IV= 1	4.584E+05	4.108E+05	3.680E+05	3.405E+05	3.364E+05	3.405E+05	3.452E+05	3.297E+05	2.962E+05
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST									
IV= 23	1.804E-01	1.980E-01	2.298E-01	2.598E-01	2.782E-01	2.852E-01	2.967E-01	3.633E-01	6.838E-01
IV= 22	6.727E-02	9.538E-02	1.358E-01	1.745E-01	1.920E-01	1.943E-01	1.672E-01	2.515E-02	3.512E-03
IV= 21	8.409E-02	1.266E-01	1.784E-01	2.162E-01	2.312E-01	2.352E-01	2.087E-01	3.117E-02	4.402E-03
IV= 20	8.965E-02	1.409E-01	2.022E-01	2.512E-01	2.771E-01	2.779E-01	2.278E-01	3.177E-02	3.821E-03
IV= 19	1.038E-01	1.616E-01	2.268E-01	2.735E-01	3.011E-01	3.021E-01	2.337E-01	3.021E-02	3.290E-03
IV= 18	1.096E-01	1.951E-01	2.690E-01	3.345E-01	3.630E-01	3.365E-01	2.246E-01	2.831E-02	2.944E-03
IV= 17	1.890E-01	2.557E-01	3.297E-01	3.893E-01	3.917E-01	3.553E-01	2.000E-01	2.693E-02	2.763E-03
IV= 16	2.677E-01	3.158E-01	3.746E-01	4.240E-01	4.236E-01	4.175E-01	2.433E-01	2.562E-02	2.584E-03
IV= 15	3.152E-01	3.489E-01	4.045E-01	4.809E-01	5.393E-01	5.272E-01	3.084E-01	2.445E-02	2.443E-03
IV= 14	2.062E-01	4.044E-01	5.400E-01	5.818E-01	6.359E-01	6.068E-01	3.432E-01	2.327E-02	2.287E-03
IV= 13	3.246E-01	4.790E-01	6.505E-01	6.961E-01	7.969E-01	7.402E-01	4.461E-01	2.131E-02	2.076E-03
IV= 12	1.301E+00	9.407E-01	9.821E-01	8.620E-01	1.023E+00	9.387E-01	5.947E-01	1.929E-02	1.860E-03
IV= 11	2.022E+00	1.873E+00	1.246E+00	1.049E+00	1.228E+00	1.136E+00	7.710E-01	1.749E-02	1.658E-03
IV= 10	3.390E+00	2.985E+00	2.174E+00	1.517E+00	1.454E+00	1.274E+00	8.558E-01	1.666E-02	1.498E-03
IV= 9	4.643E+00	4.171E+00	3.269E+00	2.011E+00	1.945E+00	1.409E+00	8.825E-01	1.659E-02	1.369E-03
IV= 8	5.937E+00	5.476E+00	4.502E+00	2.937E+00	2.710E+00	1.644E+00	8.633E-01	1.685E-02	1.244E-03
IV= 7	7.303E+00	6.864E+00	5.811E+00	4.144E+00	3.153E+00	2.145E+00	8.056E-01	1.720E-02	1.118E-03
IV= 6	8.392E+00	7.963E+00	6.983E+00	5.220E+00	3.384E+00	3.001E+00	9.342E-01	1.734E-02	9.984E-04
IV= 5	9.297E+00	8.703E+00	7.711E+00	6.069E+00	3.579E+00	3.502E+00	1.4545E+00	1.725E-02	8.722E-04
IV= 4	1.054E+01	9.835E+00	8.593E+00	6.451E+00	3.659E+00	3.486E+00	1.918E+00	1.771E-02	7.221E-04
IV= 3	9.572E+00	9.004E+00	7.803E+00	5.954E+00	3.516E+00	3.403E+00	1.652E+00	1.924E-02	6.015E-04
IV= 2	8.084E+00	7.718E+00	6.832E+00	5.181E+00	3.212E+00	3.239E+00	4.739E-01	2.600E-02	4.573E-04
IV= 1	3.141E-01	2.297E-01	1.482E-01	7.674E-02	4.327E-02	3.675E-02	4.707E-02	3.717E-02	3.409E-04
IX= 1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMP1									
IV= 23	3.263E+02	3.266E+02	3.270E+02	3.275E+02	3.278E+02	3.279E+02	3.277E+02	3.270E+02	3.245E+02
IV= 22	3.274E+02	3.277E+02	3.281E+02	3.285E+02	3.284E+02	3.284E+02	3.289E+02	3.298E+02	3.295E+02
IV= 21	3.274E+02	3.278E+02	3.281E+02	3.282E+02	3.281E+02	3.283E+02	3.289E+02	3.298E+02	3.295E+02
IV= 20	3.273E+02	3.277E+02	3.281E+02	3.283E+02	3.285E+02	3.291E+02	3.298E+02	3.292E+02	3.295E+02
IV= 19	3.269E+02	3.274E+02	3.279E+02	3.284E+02	3.288E+02	3.294E+02	3.300E+02	3.271E+02	3.295E+02
IV= 18	3.268E+02	3.272E+02	3.275E+02	3.273E+02	3.269E+02	3.277E+02	3.289E+02	3.245E+02	3.295E+02
IV= 17	3.255E+02	3.257E+02	3.257E+02	3.247E+02	3.244E+02	3.260E+02	3.280E+02	3.240E+02	2.950E+02
IV= 16	3.227E+02	3.224E+02	3.219E+02	3.205E+02	3.208E+02	3.237E+02	3.268E+02	3.231E+02	2.950E+02
IV= 15	3.206E+02	3.197E+02	3.187E+02	3.175E+02	3.184E+02	3.215E+02	3.254E+02	3.223E+02	2.950E+02
IV= 14	3.179E+02	3.162E+02	3.151E+02	3.156E+02	3.174E+02	3.206E+02	3.245E+02	3.218E+02	2.950E+02
IV= 13	3.179E+02	3.146E+02	3.132E+02	3.147E+02	3.167E+02	3.191E+02	3.223E+02	3.203E+02	2.950E+02

IV= 12	3.295E+02	3.204E+02	3.142E+02	3.155E+02	3.168E+02	3.176E+02	3.197E+02	3.187E+02	3.950E+02
IV= 11	3.757E+02	3.491E+02	3.243E+02	3.205E+02	3.186E+02	3.165E+02	3.169E+02	3.167E+02	3.950E+02
IV= 10	4.766E+02	4.210E+02	3.604E+02	3.342E+02	3.220E+02	3.162E+02	3.153E+02	3.151E+02	3.950E+02
IV= 9	6.065E+02	5.322E+02	4.337E+02	3.534E+02	3.260E+02	3.162E+02	3.143E+02	3.139E+02	3.950E+02
IV= 8	6.499E+02	5.860E+02	4.820E+02	3.715E+02	3.301E+02	3.162E+02	3.134E+02	3.127E+02	3.950E+02
IV= 7	6.584E+02	5.901E+02	4.812E+02	3.784E+02	3.327E+02	3.161E+02	3.127E+02	3.114E+02	3.950E+02
IV= 6	6.524E+02	5.906E+02	4.868E+02	3.857E+02	3.346E+02	3.162E+02	3.127E+02	3.101E+02	3.950E+02
IV= 5	6.382E+02	5.907E+02	5.008E+02	3.977E+02	3.375E+02	3.167E+02	3.130E+02	3.089E+02	2.950E+02
IV= 4	6.013E+02	5.717E+02	5.066E+02	4.103E+02	3.413E+02	3.179E+02	3.141E+02	3.087E+02	2.950E+02
IV= 3	5.572E+02	5.325E+02	4.795E+02	4.015E+02	3.404E+02	3.199E+02	3.162E+02	3.099E+02	2.950E+02
IV= 2	5.128E+02	4.907E+02	4.470E+02	3.869E+02	3.383E+02	3.239E+02	3.239E+02	3.179E+02	2.950E+02
IV= 1	4.566E+02	4.091E+02	3.665E+02	3.391E+02	3.351E+02	3.389E+02	3.438E+02	3.284E+02	2.950E+02
IX=	1	2	3	4	5	6	7	8	9
FIELD VALUES OF RHO1									
IV= 23	1.086E+00	1.085E+00	1.083E+00	1.082E+00	1.081E+00	1.081E+00	1.081E+00	1.084E+00	1.092E+00
IV= 22	1.082E+00	1.081E+00	1.080E+00	1.079E+00	1.079E+00	1.079E+00	1.079E+00	1.077E+00	1.198E+00
IV= 21	1.082E+00	1.081E+00	1.080E+00	1.080E+00	1.080E+00	1.079E+00	1.079E+00	1.077E+00	1.199E+00
IV= 20	1.083E+00	1.081E+00	1.080E+00	1.079E+00	1.078E+00	1.077E+00	1.074E+00	1.076E+00	1.200E+00
IV= 19	1.084E+00	1.082E+00	1.080E+00	1.079E+00	1.077E+00	1.076E+00	1.073E+00	1.083E+00	1.201E+00
IV= 18	1.084E+00	1.082E+00	1.082E+00	1.082E+00	1.083E+00	1.081E+00	1.077E+00	1.092E+00	1.201E+00
IV= 17	1.088E+00	1.087E+00	1.088E+00	1.091E+00	1.092E+00	1.087E+00	1.080E+00	1.094E+00	1.201E+00
IV= 16	1.098E+00	1.099E+00	1.100E+00	1.105E+00	1.104E+00	1.094E+00	1.084E+00	1.096E+00	1.201E+00
IV= 15	1.105E+00	1.108E+00	1.111E+00	1.116E+00	1.112E+00	1.102E+00	1.089E+00	1.099E+00	1.201E+00
IV= 14	1.114E+00	1.120E+00	1.124E+00	1.122E+00	1.116E+00	1.105E+00	1.092E+00	1.101E+00	1.201E+00
IV= 13	1.114E+00	1.126E+00	1.131E+00	1.125E+00	1.118E+00	1.110E+00	1.099E+00	1.106E+00	1.201E+00
IV= 12	1.075E+00	1.105E+00	1.127E+00	1.122E+00	1.118E+00	1.115E+00	1.108E+00	1.112E+00	1.201E+00
IV= 11	9.405E-01	1.014E+00	1.092E+00	1.105E+00	1.112E+00	1.119E+00	1.118E+00	1.118E+00	1.201E+00
IV= 10	7.434E-01	8.398E-01	9.823E-01	1.059E+00	1.100E+00	1.120E+00	1.123E+00	1.124E+00	1.201E+00
IV= 9	5.845E-01	6.656E-01	8.163E-01	1.002E+00	1.086E+00	1.120E+00	1.127E+00	1.128E+00	1.201E+00
IV= 8	5.457E-01	6.046E-01	7.345E-01	9.527E-01	1.073E+00	1.120E+00	1.130E+00	1.133E+00	1.201E+00
IV= 7	5.389E-01	6.005E-01	7.357E-01	9.352E-01	1.064E+00	1.120E+00	1.132E+00	1.138E+00	1.201E+00
IV= 6	5.442E-01	6.004E-01	7.274E-01	9.173E-01	1.058E+00	1.120E+00	1.133E+00	1.142E+00	1.201E+00
IV= 5	5.565E-01	6.005E-01	7.075E-01	8.899E-01	1.049E+00	1.118E+00	1.131E+00	1.146E+00	1.201E+00
IV= 4	5.903E-01	6.204E-01	6.997E-01	8.630E-01	1.037E+00	1.114E+00	1.127E+00	1.147E+00	1.201E+00
IV= 3	6.365E-01	6.656E-01	7.389E-01	8.818E-01	1.040E+00	1.107E+00	1.120E+00	1.143E+00	1.201E+00
IV= 2	6.910E-01	7.218E-01	7.920E-01	9.149E-01	1.046E+00	1.093E+00	1.093E+00	1.114E+00	1.201E+00
IV= 1	7.754E-01	8.653E-01	9.658E-01	1.044E+00	1.056E+00	1.044E+00	1.030E+00	1.079E+00	1.201E+00
IX=	1	2	3	4	5	6	7	8	9

TIME STP= 1 SWEEP NO= 70 ZSLAB NO= 46 ITERN NO= 1

FLOW FIELD AT ITHYD= 1, IZ= 46, ISWEEP= 70, ISTEP= 1									
FIELD VALUES OF PI									
IV= 23	5.021E+00	5.072E+00	4.888E+00	4.642E+00	4.421E+00	4.414E+00	4.951E+00	5.717E+00	5.842E+00
IV= 22	3.223E+00	3.182E+00	2.938E+00	2.583E+00	2.307E+00	2.247E+00	2.744E+00	3.745E+00	-1.220E+00
IV= 21	2.556E-01	2.477E-01	-1.693E-02	-3.588E-01	-1.807E-01	5.278E-01	1.874E+00	3.919E+00	-1.039E+00
IV= 20	-2.885E+00	-2.835E+00	-3.293E+00	-3.851E+00	-3.931E+00	-2.979E+00	-6.846E-01	3.177E+00	-9.296E-01
IV= 19	-7.378E+00	-7.175E+00	-7.417E+00	-7.814E+00	-7.597E+00	-6.200E+00	-2.614E+00	4.025E+00	-8.471E+00
IV= 18	-1.180E+01	-1.138E+01	-1.082E+01	-1.061E+01	-1.067E+01	-9.889E+00	-5.250E+00	4.763E+00	-8.073E+00
IV= 17	-1.559E+01	-1.505E+01	-1.431E+01	-1.306E+01	-1.220E+01	-1.171E+01	-7.022E+00	5.037E+00	-7.862E+00
IV= 16	-1.698E+01	-1.650E+01	-1.552E+01	-1.432E+01	-1.305E+01	-1.321E+01	-8.872E+00	5.015E+00	-7.663E+00
IV= 15	-1.389E+01	-1.455E+01	-1.477E+01	-1.568E+01	-1.396E+01	-1.492E+01	-1.108E+01	4.233E+00	-7.529E+00
IV= 14	2.186E-01	-5.788E+00	-1.104E+01	-1.542E+01	-1.427E+01	-1.625E+01	-1.237E+01	4.522E+00	-7.357E+00
IV= 13	4.456E+01	2.735E+01	3.392E+00	-1.014E+01	-1.464E+01	-1.936E+01	-1.649E+01	3.221E+00	-7.172E+00
IV= 12	1.277E+02	9.662E+01	4.611E+01	3.601E+00	-1.077E+01	-2.266E+01	-2.143E+01	1.395E+00	-7.007E+00
IV= 11	2.310E+02	1.942E+02	1.278E+02	3.680E+01	-3.366E+00	-2.485E+01	-2.634E+01	-1.139E+00	-6.880E+00
IV= 10	3.175E+02	2.810E+02	2.129E+02	7.871E+01	4.955E+00	-2.638E+01	-3.010E+01	-2.942E+00	-6.795E+00
IV= 9	3.768E+02	3.345E+02	2.650E+02	1.186E+02	1.587E+01	-2.747E+01	-3.328E+01	-3.658E+00	-6.730E+00
IV= 8	4.419E+02	3.868E+02	3.155E+02	1.604E+02	2.887E+01	-3.021E+01	-3.718E+01	-4.395E+00	-6.673E+00
IV= 7	5.054E+02	4.411E+02	3.676E+02	2.022E+02	4.308E+01	-3.492E+01	-4.226E+01	-5.515E+00	-6.624E+00
IV= 6	5.229E+02	4.556E+02	3.918E+02	2.316E+02	5.525E+01	-4.115E+01	-4.814E+01	-6.869E+00	-6.586E+00
IV= 5	5.198E+02	4.578E+02	3.983E+02	2.487E+02	6.434E+01	-4.912E+01	-5.503E+01	-7.954E+00	-6.545E+00
IV= 4	5.179E+02	4.578E+02	3.761E+02	2.326E+02	5.845E+01	-5.965E+01	-6.087E+01	-7.715E+00	-6.510E+00
IV= 3	5.175E+02	4.626E+02	3.640E+02	2.022E+02	3.861E+01	-6.727E+01	-6.143E+01	-5.059E+00	-6.494E+00
IV= 2	4.355E+02	3.898E+02	2.952E+02	1.458E+02	8.884E+00	-7.422E+01	-5.861E+01	1.344E+00	-6.472E+00
IV= 1	3.197E+02	2.688E+02	1.760E+02	5.326E+01	-2.898E+01	-6.937E+01	-3.503E+01	2.253E+01	-6.464E+00

IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF U1									
IY# 23	1.480E-01	2.644E-01	3.446E-01	3.144E-01	1.687E-01	8.357E-02	2.078E-01	1.320E-01	
IY# 22	1.891E-01	3.318E-01	5.082E-01	6.020E-01	8.093E-01	9.691E-01	8.567E-01	9.634E-08	
IY# 21	2.516E-01	4.426E-01	7.926E-01	1.161E+00	1.484E+00	1.568E+00	1.280E+00	4.255E-08	
IY# 20	3.500E-01	6.520E-01	1.132E+00	1.574E+00	1.933E+00	2.005E+00	1.556E+00	5.566E-08	
IY# 19	5.114E-01	6.672E-01	1.314E+00	1.863E+00	2.346E+00	2.522E+00	1.957E+00	7.560E-08	
IY# 18	8.608E-01	5.959E-01	1.300E+00	1.899E+00	2.567E+00	3.016E+00	2.439E+00	3.205E-08	
IY# 17	-1.213E-02	1.260E-01	5.533E-01	1.173E+00	2.126E+00	2.869E+00	2.428E+00	3.172E-08	
IY# 16	-5.353E-01	-3.960E-01	-7.743E-02	5.490E-02	1.808E+00	2.789E+00	2.468E+00	3.156E-08	
IY# 15	-2.706E-02	-3.144E-01	-4.580E-01	-7.073E-02	1.412E+00	2.596E+00	2.459E+00	1.747E-08	
IY# 14	2.886E-01	3.837E-03	-7.274E-01	-4.843E-01	1.137E+00	2.426E+00	2.376E+00	3.211E-08	
IY# 13	5.417E-01	5.512E-01	-7.303E-01	-1.187E+00	3.889E-01	1.941E+00	2.154E+00	2.733E-08	
IY# 12	4.862E-01	4.301E-01	-5.945E-01	-1.600E+00	-4.494E-01	1.325E+00	1.838E+00	2.075E-08	
IY# 11	6.072E-02	6.896E-02	-4.046E-01	-1.621E+00	-9.371E-01	7.484E-01	1.435E+00	1.115E-08	
IY# 10	-9.847E-01	-1.035E+00	-8.140E-01	-1.779E+00	-1.443E+00	2.809E-01	1.161E+00	5.510E-09	
IY# 9	-1.508E+00	-1.768E+00	-1.515E+00	-2.150E+00	-1.851E+00	-1.480E-03	1.130E+00	3.402E-09	
IY# 8	-1.978E+00	-2.596E+00	-2.491E+00	-2.708E+00	-2.234E+00	-3.416E-01	1.004E+00	1.789E-09	
IY# 7	-2.637E+00	-3.525E+00	-3.430E+00	-3.228E+00	-2.570E+00	-7.150E-01	7.771E-01	4.963E-10	
IY# 6	-2.725E+00	-3.717E+00	-3.573E+00	-3.267E+00	-2.718E+00	-1.0295E+00	4.152E-01	1.291E-10	
IY# 5	-2.069E+00	-2.878E+00	-2.709E+00	-2.708E+00	-2.646E+00	-1.252E+00	-1.123E-01	1.017E-11	
IY# 4	-8.962E-01	-1.243E+00	-1.050E+00	-1.660E+00	-2.357E+00	-1.337E+00	-6.705E-01	8.855E-14	
IY# 3	-2.837E-01	-3.981E-01	-3.936E-01	-1.166E+00	-2.079E+00	-1.164E+00	-8.679E-01	1.566E-13	
IY# 2	8.790E-02	1.180E-01	-4.434E-02	-7.854E-01	-1.574E+00	-3.706E-01	-2.940E-01	1.490E-10	
IY# 1	6.798E-01	8.660E-01	1.061E+00	1.058E+00	4.207E+00	6.273E+00	5.274E+00	4.552E-08	
IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF V1									
IY# 22	7.237E-01	6.072E-01	3.728E-01	9.844E-02	-7.398E-02	4.698E-01	2.001E+00	3.842E+00	7.009E-02
IY# 21	2.556E-01	1.442E-01	-1.045E-01	-2.445E-01	4.576E-01	2.133E+00	4.072E+00	6.234E+00	4.926E-01
IY# 20	-9.779E-01	-9.902E-01	-6.430E-01	2.444E-01	2.273E+00	4.006E+00	5.684E+00	7.532E+00	4.556E-01
IY# 19	-1.915E+00	-1.600E+00	-6.241E-01	1.016E+00	3.216E+00	4.942E+00	6.481E+00	8.163E+00	4.044E-01
IY# 18	-2.453E+00	-1.683E+00	1.651E-01	2.185E+00	3.987E+00	5.214E+00	6.624E+00	8.190E+00	3.543E-01
IY# 17	-3.017E+00	-2.175E+00	3.219E-02	1.966E+00	3.452E+00	4.535E+00	6.213E+00	7.762E+00	3.385E-01
IY# 16	-2.844E+00	-2.085E+00	-3.346E-01	1.550E+00	2.921E+00	3.950E+00	5.842E+00	7.369E+00	3.213E-01
IY# 15	-1.214E+00	-9.300E-01	-3.170E-01	9.241E-01	2.188E+00	3.258E+00	5.365E+00	6.870E+00	3.019E-01
IY# 14	2.349E+00	1.325E+00	3.830E-01	5.639E-01	1.650E+00	2.760E+00	5.030E+00	6.486E+00	2.895E-01
IY# 13	8.100E+00	5.705E+00	2.075E+00	3.953E-01	6.240E-01	1.732E+00	4.250E+00	5.771E+00	2.644E-01
IY# 12	1.533E+01	1.145E+01	5.414E+00	1.196E+00	-7.463E-02	7.499E-01	3.300E+00	4.900E+00	2.379E-01
IY# 11	2.438E+01	1.886E+01	9.942E+00	2.761E+00	-4.532E-01	-3.735E-01	2.044E+00	3.870E+00	2.104E-01
IY# 10	3.512E+01	2.613E+01	1.467E+01	4.401E+00	-8.297E-01	-1.515E+00	8.137E-01	2.972E+00	1.870E-01
IY# 9	3.889E+01	3.126E+01	1.805E+01	5.641E+00	-8.863E-01	-2.123E+00	7.963E-02	2.334E+00	1.696E-01
IY# 8	4.209E+01	3.433E+01	2.051E+01	6.720E+00	-8.222E-01	-2.690E+00	-5.798E-01	1.659E+00	1.531E-01
IY# 7	4.226E+01	3.492E+01	2.161E+01	7.620E+00	-5.187E-01	-3.097E+00	-1.184E+00	9.623E-01	1.364E-01
IY# 6	3.875E+01	3.269E+01	2.122E+01	8.365E+00	6.651E-02	-3.204E+00	-1.669E+00	2.795E-01	1.193E-01
IY# 5	3.204E+01	2.795E+01	1.934E+01	8.482E+00	5.769E-01	-3.071E+00	-1.973E+00	-2.746E-01	1.036E-01
IY# 4	2.106E+01	1.922E+01	1.456E+01	7.134E+00	6.267E-01	-2.790E+00	-2.112E+00	-7.796E-01	8.455E-02
IY# 3	1.090E+01	9.931E+00	7.461E+00	3.665E+00	-3.411E-01	-2.551E+00	-2.121E+00	-9.953E-01	6.556E-02
IY# 2	7.144E+00	6.462E+00	4.728E+00	2.091E+00	-8.914E-01	-2.461E+00	-2.090E+00	-8.716E-01	5.226E-02
IY# 1	1.835E+00	1.462E+00	4.382E-01	-9.898E-01	-2.201E+00	-2.403E+00	-1.389E+00	3.000E-01	2.453E-02
IX#	1	2	3	4	5	6	7	8	9
FIELD VALUES OF W1									
IY# 23	1.050E+00	9.691E-01	8.335E-01	6.575E-01	4.203E-01	1.255E-01	-1.444E-01	-3.536E-01	-3.469E-07
IY# 22	1.205E+00	1.065E+00	7.618E-01	4.924E-01	1.181E-01	-2.288E-01	-5.516E-01	-1.124E+00	-1.036E-01
IY# 21	7.747E-01	5.602E-01	4.867E-02	-3.099E-01	-5.687E-01	-7.080E-01	-9.668E-01	-1.708E+00	-8.119E-02
IY# 20	5.738E-01	3.897E-01	-3.443E-02	-3.126E-01	-6.073E-01	-8.156E-01	-1.210E+00	-2.217E+00	-6.666E-02
IY# 19	5.785E-01	3.312E-01	-1.762E-01	-4.848E-01	-7.989E-01	-1.059E+00	-1.542E+00	-2.755E+00	-5.951E-02
IY# 18	4.667E-01	2.966E-02	-5.459E-01	-7.929E-01	-1.034E+00	-1.348E+00	-1.954E+00	-3.597E+00	-6.033E-02
IY# 17	1.702E+00	1.106E+00	1.963E-01	-2.390E-01	-5.821E-01	-1.065E+00	-1.955E+00	-3.592E+00	-5.360E-02
IY# 16	3.372E+00	2.410E+00	1.002E+00	2.276E-01	-2.615E-01	-8.962E-01	-2.030E+00	-3.813E+00	-4.976E-02
IY# 15	7.179E+00	5.300E+00	2.647E+00	1.097E+00	2.102E-01	-6.840E-01	-2.115E+00	-4.045E+00	-4.707E-02
IY# 14	1.222E+01	9.122E+00	4.484E+00	1.975E+00	5.725E-01	-5.888E-01	-2.220E+00	-4.195E+00	-4.380E-02
IY# 13	2.408E+01	1.911E+01	1.009E+01	4.469E+00	1.676E+00	-1.400E-01	-2.312E+00	-4.443E+00	-4.176E-02
IY# 12	4.312E+01	3.519E+01	2.077E+01	9.287E+00	3.640E+00	5.821E-01	-2.345E+00	-4.680E+00	-3.978E-02
IY# 11	7.250E+01	5.986E+01	3.799E+01	1.820E+01	6.757E+00	1.803E+00	-2.147E+00	-4.838E+00	-3.862E-02
IY# 10	1.099E+02	9.111E+01	5.912E+01	2.908E+01	1.076E+01	3.025E+00	-1.992E+00	-4.982E+00	-3.749E-02
IY# 9	1.468E+02	1.220E+02	7.915E+01	3.906E+01	1.430E+01	5.649E+00	-2.186E+00	-5.194E+00	-3.602E-02
IY# 8	1.823E+02	1.517E+02	9.902E+01	4.907E+01	1.802E+01	4.350E+00	-2.436E+00	-5.407E+00	-3.485E-02
IY# 7	2.155E+02	1.797E+02	1.183E+02	5.934E+01	2.204E+01	5.159E+00	-2.751E+00	-5.616E+00	-3.393E-02

IV=	6	2.419E+02	2.039E+02	1.366E+02	6.951E+01	2.616E+01	6.040E+00	-3.046E+00	-5.765E+00	-3.318E-02
IV=	5	2.478E+02	2.140E+02	1.493E+02	7.799E+01	2.992E+01	6.888E+00	-3.386E+00	-5.908E+00	-3.226E-02
IV=	4	2.140E+02	1.926E+02	1.457E+02	8.048E+01	3.181E+01	7.133E+00	-4.002E+00	-6.142E+00	-3.181E-02
IV=	3	1.685E+02	1.525E+02	1.180E+02	6.929E+01	2.869E+01	6.072E+00	-4.444E+00	-6.260E+00	-3.218E-02
IV=	2	1.234E+02	1.116E+02	8.715E+01	5.396E+01	2.319E+01	3.446E+00	-5.660E+00	-6.885E+00	-3.143E-02
IV=	1	7.591E+01	5.693E+01	3.701E+01	1.916E+01	5.298E+00	-4.173E+00	-7.860E+00	-7.919E+00	-4.010E-02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF KE										
IV=	23	1.172E+00	1.068E+00	1.040E+00	1.079E+00	1.201E+00	1.558E+00	1.979E+00	3.407E+00	1.155E+01
IV=	22	8.547E-01	7.042E-01	6.898E-01	6.743E-01	7.233E-01	8.720E-01	8.722E-01	1.429E-01	8.379E-04
IV=	21	1.597E+00	1.321E+00	1.142E+00	1.089E+00	1.522E+00	1.900E+00	1.800E+00	2.557E-01	1.950E-03
IV=	20	2.192E+00	2.169E+00	2.466E+00	3.362E+00	4.315E+00	4.248E+00	3.257E+00	3.304E-01	1.629E-03
IV=	19	3.086E+00	4.200E+00	5.524E+00	7.142E+00	7.952E+00	7.140E+00	5.044E+00	3.666E-01	1.303E-03
IV=	18	3.922E+00	6.637E+00	9.903E+00	1.232E+01	1.328E+01	1.173E+01	7.713E+00	3.698E-01	1.113E-03
IV=	17	4.949E+00	9.502E+00	1.389E+01	1.654E+01	1.687E+01	1.457E+01	8.983E+00	3.470E-01	1.016E-03
IV=	16	9.041E+00	1.369E+01	1.801E+01	2.072E+01	2.081E+01	1.726E+01	1.010E+01	3.246E-01	9.172E-04
IV=	15	3.064E+01	2.529E+01	2.212E+01	2.480E+01	2.533E+01	2.064E+01	1.120E+01	3.051E-01	8.352E-04
IV=	14	9.639E+01	6.931E+01	5.609E+01	2.872E+01	2.855E+01	2.267E+01	1.173E+01	2.783E+01	7.431E-04
IV=	13	2.739E+02	2.126E+02	1.096E+02	4.498E+01	3.464E+01	2.656E+01	1.297E+01	2.460E+01	6.258E-04
IV=	12	6.402E+02	5.213E+02	3.060E+02	1.124E+02	4.590E+01	3.202E+01	1.5000E+01	2.126E+01	5.128E-04
IV=	11	1.319E+03	1.122E+03	7.488E+02	5.014E+02	8.547E+01	4.356E+01	1.952E+01	1.829E+01	4.163E-04
IV=	10	2.319E+03	2.047E+03	1.469E+03	6.413E+02	1.708E+02	6.156E+01	2.423E+01	1.682E+01	3.454E-04
IV=	9	3.316E+03	3.020E+03	2.277E+03	1.063E+03	2.926E+02	8.752E+01	2.951E+01	1.639E+01	2.909E-04
IV=	8	4.233E+03	3.986E+03	3.177E+03	1.591E+03	4.670E+02	1.263E+02	3.623E+01	1.639E+01	2.417E-04
IV=	7	5.053E+03	4.902E+03	4.111E+03	2.196E+03	6.920E+02	1.796E+02	4.417E+01	1.685E+01	1.961E-04
IV=	6	5.446E+03	5.466E+03	4.861E+03	2.768E+03	9.277E+02	2.393E+02	5.227E+01	1.749E+01	1.563E-04
IV=	5	5.449E+03	5.509E+03	5.142E+03	3.166E+03	1.134E+03	2.999E+02	6.103E+01	1.843E+01	1.187E-04
IV=	4	5.484E+03	5.261E+03	4.758E+03	3.135E+03	1.214E+03	3.373E+02	6.313E+01	2.002E+01	8.130E-05
IV=	3	4.788E+03	4.538E+03	3.938E+03	2.562E+03	1.058E+03	3.166E+02	5.865E+01	2.075E+01	5.762E-05
IV=	2	3.507E+03	3.334E+03	2.839E+03	1.838E+03	8.129E+02	2.666E+02	4.871E+01	2.426E+01	3.524E-05
IV=	1	2.039E+01	1.195E+01	5.375E+00	1.593E+00	1.827E-01	2.295E+01	4.576E+01	3.286E+01	3.208E-05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF EP										
IV=	23	5.683E-01	4.684E-01	4.222E-01	4.231E-01	5.013E-01	8.561E-01	1.475E+00	3.574E+00	1.776E+01
IV=	22	5.184E-01	3.519E-01	3.074E-01	2.735E-01	3.447E-01	7.009E-01	9.054E-01	7.416E-02	3.497E-05
IV=	21	1.193E+00	8.364E-01	6.545E-01	7.003E-01	1.884E+00	2.753E+00	2.658E+00	1.776E-01	1.242E-04
IV=	20	1.807E+00	1.769E+00	2.376E+00	4.900E+00	7.870E+00	7.875E+00	5.813E+00	2.609E+01	9.482E-05
IV=	19	3.279E+00	5.951E+00	1.045E+01	1.663E+01	1.901E+01	1.621E+01	1.062E+01	3.048E+01	6.778E-05
IV=	18	5.458E+00	1.405E+01	2.747E+01	3.673E+01	3.806E+01	3.111E+01	1.860E+01	3.088E+01	5.351E-05
IV=	17	8.251E+00	2.406E+01	4.308E+01	5.281E+01	5.166E+01	4.068E+01	2.261E+01	2.807E+01	4.671E-05
IV=	16	1.847E+01	3.949E+01	5.896E+01	6.911E+01	6.646E+01	5.068E+01	2.636E+01	2.540E+01	4.005E-05
IV=	15	3.156E+02	1.897E+02	9.943E+01	8.815E+01	8.491E+01	6.271E+01	3.000E+01	2.314E+01	3.480E-05
IV=	14	1.397E+03	8.658E+02	2.822E+02	1.133E+02	9.661E+01	6.968E+01	3.172E+01	2.017E+01	2.920E-05
IV=	13	5.431E+03	3.744E+03	1.363E+03	2.766E+02	1.227E+02	8.491E+01	3.550E+01	1.675E+01	2.257E-05
IV=	12	1.675E+04	5.446E+03	1.131E+03	1.992E+02	1.084E+02	4.248E+01	1.346E+01	1.674E+01	1.674E-05
IV=	11	4.441E+04	3.481E+04	1.817E+04	4.593E+03	5.769E+02	1.701E+02	5.993E+01	1.083E+01	1.225E-05
IV=	10	9.451E+04	7.830E+04	4.648E+04	1.329E+04	1.690E+03	2.913E+02	8.432E+01	9.477E+02	9.255E-06
IV=	9	1.516E+05	1.331E+05	8.712E+04	2.712E+04	3.741E+03	5.101E+02	1.180E+02	9.115E+02	7.151E-06
IV=	8	2.083E+05	1.936E+05	1.396E+05	4.772E+04	7.315E+03	9.125E+02	1.686E+02	9.110E+02	5.417E-06
IV=	7	2.612E+05	2.570E+05	2.018E+05	7.515E+04	1.287E+04	1.596E+03	2.391E+02	9.503E+02	3.958E-06
IV=	6	2.807E+05	2.949E+05	2.578E+05	1.059E+05	1.986E+04	2.515E+03	3.230E+02	1.005E+01	2.817E-06
IV=	5	2.627E+05	2.828E+05	2.743E+05	1.285E+05	2.677E+04	3.584E+03	4.191E+02	1.086E+01	1.865E-06
IV=	4	2.556E+05	2.470E+05	2.281E+05	1.241E+05	2.944E+04	4.297E+03	4.610E+02	1.230E+01	1.057E-06
IV=	3	2.146E+05	2.015E+05	1.696E+05	8.964E+04	2.340E+04	3.863E+03	4.224E+02	1.298E+01	6.306E-07
IV=	2	1.365E+05	1.277E+05	1.016E+05	5.257E+04	1.518E+04	2.967E+03	3.405E+02	1.641E+01	3.015E-07
IV=	1	1.238E+02	5.551E+01	1.675E+01	2.703E+00	1.050E-01	1.478E-01	4.160E-01	2.559E-01	2.619E-07
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF H1										
IV=	23	3.285E+05	3.285E+05	3.287E+05	3.289E+05	3.290E+05	3.289E+05	3.286E+05	3.282E+05	3.267E+05
IV=	22	3.290E+05	3.291E+05	3.293E+05	3.294E+05	3.294E+05	3.289E+05	3.286E+05	3.293E+05	3.269E+05
IV=	21	3.291E+05	3.291E+05	3.289E+05	3.285E+05	3.282E+05	3.284E+05	3.292E+05	3.313E+05	3.262E+05
IV=	20	3.290E+05	3.289E+05	3.287E+05	3.287E+05	3.293E+05	3.300E+05	3.313E+05	3.339E+05	3.262E+05
IV=	19	3.291E+05	3.292E+05	3.298E+05	3.310E+05	3.321E+05	3.328E+05	3.341E+05	3.368E+05	3.262E+05
IV=	18	3.298E+05	3.307E+05	3.328E+05	3.339E+05	3.344E+05	3.352E+05	3.369E+05	3.398E+05	3.262E+05
IV=	17	3.295E+05	3.302E+05	3.316E+05	3.325E+05	3.335E+05	3.350E+05	3.375E+05	3.408E+05	3.262E+05
IV=	16	3.278E+05	3.281E+05	3.288E+05	3.303E+05	3.322E+05	3.347E+05	3.381E+05	3.417E+05	3.262E+05
IV=	15	3.251E+05	3.251E+05	3.258E+05	3.276E+05	3.308E+05	3.343E+05	3.388E+05	3.427E+05	3.262E+05
IV=	14	3.259E+05	3.237E+05	3.228E+05	3.255E+05	3.297E+05	3.340E+05	3.392E+05	3.423E+05	3.262E+05

IY=	13	3.380E+05	3.317E+05	3.244E+05	3.241E+05	3.275E+05	3.332E+05	3.400E+05	3.444E+05	2.962E+05
IY=	12	3.680E+05	3.548E+05	3.362E+05	3.270E+05	3.268E+05	3.325E+05	3.407E+05	3.455E+05	2.962E+05
IY=	11	4.306E+05	4.038E+05	3.661E+05	3.398E+05	3.287E+05	3.313E+05	3.411E+05	3.461E+05	2.962E+05
IY=	10	5.223E+05	4.793E+05	4.154E+05	3.619E+05	3.342E+05	3.316E+05	3.417E+05	3.461E+05	2.962E+05
IY=	9	5.950E+05	5.439E+05	4.598E+05	3.818E+05	3.404E+05	3.327E+05	3.425E+05	3.463E+05	2.962E+05
IY=	8	6.180E+05	5.681E+05	4.823E+05	3.955E+05	3.462E+05	3.342E+05	3.434E+05	3.462E+05	2.962E+05
IY=	7	6.201E+05	5.710E+05	4.875E+05	4.030E+05	3.510E+05	3.358E+05	3.441E+05	3.458E+05	2.962E+05
IY=	6	6.145E+05	5.704E+05	4.924E+05	4.098E+05	3.553E+05	3.375E+05	3.449E+05	3.453E+05	2.962E+05
IY=	5	6.014E+05	5.657E+05	4.972E+05	4.168E+05	3.595E+05	3.395E+05	3.457E+05	3.450E+05	2.962E+05
IY=	4	5.710E+05	5.456E+05	4.928E+05	4.205E+05	3.630E+05	3.420E+05	3.470E+05	3.458E+05	2.962E+05
IY=	3	5.307E+05	5.159E+05	4.724E+05	4.124E+05	3.623E+05	3.439E+05	3.481E+05	3.472E+05	2.962E+05
IY=	2	5.027E+05	4.806E+05	4.468E+05	3.998E+05	3.605E+05	3.473E+05	3.513E+05	3.527E+05	2.962E+05
IY=	1	4.624E+05	4.217E+05	3.827E+05	3.595E+05	3.522E+05	3.583E+05	3.615E+05	3.628E+05	2.962E+05
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF VIST										
IY=	23	2.175E-01	2.195E-01	2.303E-01	2.475E-01	2.588E-01	2.552E-01	2.390E-01	2.922E-01	6.533E-01
IY=	22	1.268E-01	1.268E-01	1.393E-01	1.496E-01	1.366E-01	9.765E-02	7.563E-02	2.477E-02	1.807E-03
IY=	21	1.924E-01	1.878E-01	1.792E-01	1.523E-01	1.107E-01	1.181E-01	1.097E-01	3.314E-02	2.757E-03
IY=	20	2.394E-01	2.392E-01	2.307E-01	2.077E-01	2.129E-01	2.062E-01	1.643E-01	3.767E-02	2.510E-03
IY=	19	2.613E-01	2.668E-01	2.628E-01	2.760E-01	2.994E-01	2.831E-01	2.157E-01	3.967E-02	2.253E-03
IY=	18	2.526E-01	2.822E-01	3.213E-01	3.718E-01	4.169E-01	3.978E-01	2.879E-01	3.985E-02	2.083E-03
IY=	17	2.671E-01	3.278E-01	4.030E-01	4.662E-01	4.955E-01	4.696E-01	3.213E-01	3.860E-02	1.990E-03
IY=	16	3.982E-01	4.272E-01	4.952E-01	5.589E-01	5.864E-01	5.290E-01	3.483E-01	3.734E-02	1.891E-03
IY=	15	2.677E-01	3.034E-01	4.428E-01	6.282E-01	6.798E-01	6.115E-01	3.765E-01	3.619E-02	1.804E-03
IY=	14	5.988E-01	6.994E-01	4.155E-01	6.555E-01	7.592E-01	6.638E-01	3.906E-01	3.457E-02	1.702E-03
IY=	13	1.243E+00	1.087E+00	7.930E-01	6.585E-01	8.804E-01	7.479E-01	4.263E-01	3.250E-02	1.561E-03
IY=	12	2.202E+00	1.977E+00	1.548E+00	1.005E+00	9.522E-01	8.515E-01	4.766E-01	3.022E-02	1.414E-03
IY=	11	3.528E+00	3.255E+00	2.778E+00	1.780E+00	1.140E+00	1.006E+00	5.722E-01	2.810E-02	1.274E-03
IY=	10	5.123E+00	4.816E+00	4.177E+00	2.785E+00	1.553E+00	1.171E+00	6.268E-01	2.688E-02	1.160E-03
IY=	9	6.524E+00	6.201E+00	5.355E+00	3.750E+00	2.059E+00	1.351E+00	6.642E-01	2.653E-02	1.065E-03
IY=	8	7.743E+00	7.388E+00	6.507E+00	4.772E+00	2.684E+00	1.574E+00	7.007E-01	2.653E-02	9.706E-04
IY=	7	8.798E+00	8.417E+00	7.525E+00	5.759E+00	3.348E+00	1.820E+00	7.344E-01	2.690E-02	8.742E-04
IY=	6	9.510E+00	9.118E+00	8.248E+00	6.515E+00	3.901E+00	2.049E+00	7.614E-01	2.741E-02	7.806E-04
IY=	5	1.017E+01	9.659E+00	8.679E+00	7.024E+00	4.327E+00	2.259E+00	7.999E-01	2.813E-02	6.803E-04
IY=	4	1.059E+01	1.009E+01	8.933E+00	7.130E+00	4.506E+00	2.382E+00	7.782E-01	2.932E-02	5.629E-04
IY=	3	9.615E+00	9.198E+00	8.232E+00	6.606E+00	4.306E+00	2.336E+00	7.330E-01	2.985E-02	4.739E-04
IY=	2	8.108E+00	7.831E+00	7.139E+00	5.785E+00	3.918E+00	2.156E+00	6.271E-01	3.228E-02	3.706E-04
IY=	1	3.024E-01	2.315E-01	1.555E-01	8.452E-02	2.862E-02	3.208E-02	4.529E-02	3.797E-02	3.536E-04
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF TMPI										
IY=	23	3.271E+02	3.272E+02	3.274E+02	3.276E+02	3.277E+02	3.276E+02	3.273E+02	3.269E+02	3.254E+02
IY=	22	3.277E+02	3.278E+02	3.280E+02	3.281E+02	3.280E+02	3.276E+02	3.273E+02	3.280E+02	3.257E+02
IY=	21	3.278E+02	3.278E+02	3.276E+02	3.272E+02	3.269E+02	3.271E+02	3.279E+02	3.299E+02	3.290E+02
IY=	20	3.276E+02	3.276E+02	3.274E+02	3.274E+02	3.280E+02	3.287E+02	3.299E+02	3.326E+02	3.250E+02
IY=	19	3.278E+02	3.279E+02	3.285E+02	3.296E+02	3.308E+02	3.315E+02	3.328E+02	3.355E+02	3.250E+02
IY=	18	3.285E+02	3.294E+02	3.315E+02	3.325E+02	3.331E+02	3.339E+02	3.355E+02	3.285E+02	3.250E+02
IY=	17	3.282E+02	3.289E+02	3.303E+02	3.312E+02	3.321E+02	3.336E+02	3.361E+02	3.394E+02	3.250E+02
IY=	16	3.264E+02	3.268E+02	3.275E+02	3.290E+02	3.309E+02	3.334E+02	3.368E+02	3.404E+02	3.250E+02
IY=	15	3.238E+02	3.238E+02	3.245E+02	3.263E+02	3.295E+02	3.330E+02	3.374E+02	3.414E+02	3.250E+02
IY=	14	3.246E+02	3.234E+02	3.215E+02	3.242E+02	3.284E+02	3.327E+02	3.379E+02	3.419E+02	3.250E+02
IY=	13	3.536E+02	3.304E+02	3.232E+02	3.228E+02	3.262E+02	3.319E+02	3.386E+02	3.431E+02	3.250E+02
IY=	12	3.666E+02	3.533E+02	3.349E+02	3.257E+02	3.255E+02	3.312E+02	3.393E+02	3.442E+02	3.250E+02
IY=	11	4.288E+02	4.022E+02	3.647E+02	3.384E+02	3.274E+02	3.300E+02	3.397E+02	3.447E+02	3.250E+02
IY=	10	5.202E+02	4.774E+02	4.137E+02	3.604E+02	3.329E+02	3.302E+02	3.403E+02	3.447E+02	3.250E+02
IY=	9	5.927E+02	5.418E+02	4.580E+02	3.803E+02	3.390E+02	3.313E+02	3.412E+02	3.449E+02	3.250E+02
IY=	8	6.156E+02	5.659E+02	4.804E+02	3.946E+02	3.448E+02	3.328E+02	3.420E+02	3.448E+02	3.250E+02
IY=	7	6.177E+02	5.688E+02	4.855E+02	4.014E+02	3.496E+02	3.345E+02	3.428E+02	3.444E+02	3.250E+02
IY=	6	6.120E+02	5.681E+02	4.904E+02	4.081E+02	3.539E+02	3.362E+02	3.435E+02	3.439E+02	3.250E+02
IY=	5	5.990E+02	5.635E+02	4.952E+02	4.151E+02	3.580E+02	3.381E+02	3.443E+02	3.436E+02	3.250E+02
IY=	4	5.687E+02	5.437E+02	4.909E+02	4.188E+02	3.615E+02	3.406E+02	3.457E+02	3.444E+02	3.250E+02
IY=	3	5.345E+02	5.139E+02	4.705E+02	4.107E+02	3.609E+02	3.415E+02	3.467E+02	3.458E+02	3.250E+02
IY=	2	4.988E+02	4.807E+02	4.450E+02	3.982E+02	3.590E+02	3.459E+02	3.499E+02	3.513E+02	3.250E+02
IY=	1	4.605E+02	4.200E+02	3.812E+02	3.581E+02	3.508E+02	3.569E+02	3.600E+02	3.614E+02	3.250E+02
IX=	1	2	3	4	5	6	7	8	9	
FIELD VALUES OF RHO1										
IY=	23	1.083E+00	1.083E+00	1.082E+00	1.082E+00	1.081E+00	1.081E+00	1.083E+00	1.084E+00	1.089E+00
IY=	22	1.081E+00	1.081E+00	1.080E+00	1.080E+00	1.080E+00	1.082E+00	1.083E+00	1.080E+00	1.198E+00
IY=	21	1.081E+00	1.081E+00	1.081E+00	1.083E+00	1.084E+00	1.083E+00	1.081E+00	1.074E+00	1.201E+00

IY= 20	1.081E+00	1.081E+00	1.082E+00	1.082E+00	1.080E+00	1.078E+00	1.074E+00	1.065E+00	1.201E+00
IY= 19	1.081E+00	1.080E+00	1.079E+00	1.075E+00	1.071E+00	1.069E+00	1.065E+00	1.056E+00	1.201E+00
IY= 18	1.079E+00	1.075E+00	1.064E+00	1.065E+00	1.063E+00	1.061E+00	1.056E+00	1.047E+00	1.201E+00
IY= 17	1.079E+00	1.077E+00	1.072E+00	1.070E+00	1.067E+00	1.062E+00	1.054E+00	1.044E+00	1.201E+00
IY= 16	1.085E+00	1.084E+00	1.082E+00	1.077E+00	1.070E+00	1.063E+00	1.052E+00	1.041E+00	1.201E+00
IY= 15	1.094E+00	1.094E+00	1.092E+00	1.086E+00	1.075E+00	1.064E+00	1.050E+00	1.038E+00	1.201E+00
IY= 14	1.091E+00	1.095E+00	1.102E+00	1.093E+00	1.079E+00	1.065E+00	1.048E+00	1.036E+00	1.201E+00
IY= 13	1.053E+00	1.073E+00	1.096E+00	1.097E+00	1.086E+00	1.067E+00	1.046E+00	1.033E+00	1.201E+00
IY= 12	9.677E-01	1.004E+00	1.058E+00	1.088E+00	1.088E+00	1.070E+00	1.044E+00	1.029E+00	1.201E+00
IY= 11	8.280E-01	8.825E-01	9.727E-01	1.047E+00	1.082E+00	1.075E+00	1.043E+00	1.028E+00	1.201E+00
IY= 10	6.823E-01	7.441E-01	8.581E-01	9.838E-01	1.064E+00	1.073E+00	1.041E+00	1.028E+00	1.201E+00
IY= 9	6.000E-01	6.561E-01	7.756E-01	9.327E-01	1.045E+00	1.069E+00	1.038E+00	1.027E+00	1.201E+00
IY= 8	5.780E-01	6.285E-01	7.397E-01	9.007E-01	1.028E+00	1.064E+00	1.036E+00	1.027E+00	1.201E+00
IY= 7	5.764E-01	6.256E-01	7.324E-01	8.843E-01	1.014E+00	1.059E+00	1.033E+00	1.029E+00	1.201E+00
IY= 6	5.819E-01	6.264E-01	7.252E-01	8.700E-01	1.002E+00	1.053E+00	1.031E+00	1.030E+00	1.201E+00
IY= 5	5.944E-01	6.316E-01	7.183E-01	8.556E-01	9.901E-01	1.047E+00	1.029E+00	1.031E+00	1.201E+00
IY= 4	6.263E-01	6.546E-01	7.244E-01	8.478E-01	9.805E-01	1.039E+00	1.024E+00	1.029E+00	1.201E+00
IY= 3	6.662E-01	6.926E-01	7.557E-01	8.643E-01	9.821E-01	1.034E+00	1.021E+00	1.025E+00	1.201E+00
IY= 2	7.134E-01	7.399E-01	7.985E-01	8.910E-01	9.869E-01	1.023E+00	1.012E+00	1.009E+00	1.201E+00
IY= 1	7.717E-01	8.457E-01	9.311E-01	9.899E-01	1.010E+00	9.920E-01	9.836E-01	9.806E-01	1.201E+00
IX=	1	2	3	4	5	6	7	8	9

SPOT VALUES VS. SWEEP (/ITHYD IF PARAB)

IXMON= 2 IYMON= 4 IZMON= 12

TABULATION OF ABSCISSA AND ORDINATES...

ISWP	P1	U1	V1	W1	KE	EP	H1
2.000E+00	-1.192E+02	-6.247E+00	-2.132E+00	2.719E+01	2.324E+00	1.601E+01	2.961E+05
3.000E+00	-1.191E+02	-6.246E+00	-2.132E+00	2.718E+01	2.323E+00	1.600E+01	2.961E+05
4.000E+00	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.322E+00	1.599E+01	2.961E+05
5.000E+00	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.321E+00	1.598E+01	2.961E+05
6.000E+00	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.321E+00	1.598E+01	2.961E+05
7.000E+00	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.320E+00	1.597E+01	2.961E+05
8.000E+00	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.320E+00	1.597E+01	2.961E+05
9.000E+00	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.000E+01	-1.190E+02	-6.246E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.100E+01	-1.190E+02	-6.247E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.200E+01	-1.190E+02	-6.247E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.300E+01	-1.190E+02	-6.247E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.400E+01	-1.190E+02	-6.247E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.500E+01	-1.190E+02	-6.247E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.600E+01	-1.190E+02	-6.248E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.700E+01	-1.190E+02	-6.248E+00	-2.132E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
1.800E+01	-1.190E+02	-6.248E+00	-2.132E+00	2.719E+01	2.319E+00	1.596E+01	2.961E+05
1.900E+01	-1.190E+02	-6.248E+00	-2.132E+00	2.719E+01	2.319E+00	1.596E+01	2.961E+05
2.000E+01	-1.190E+02	-6.248E+00	-2.132E+00	2.719E+01	2.320E+00	1.596E+01	2.961E+05
2.100E+01	-1.190E+02	-6.249E+00	-2.132E+00	2.719E+01	2.320E+00	1.596E+01	2.961E+05
2.200E+01	-1.190E+02	-6.249E+00	-2.132E+00	2.719E+01	2.320E+00	1.597E+01	2.961E+05
2.300E+01	-1.190E+02	-6.249E+00	-2.132E+00	2.719E+01	2.320E+00	1.597E+01	2.961E+05
2.400E+01	-1.190E+02	-6.249E+00	-2.132E+00	2.719E+01	2.320E+00	1.597E+01	2.961E+05
2.500E+01	-1.190E+02	-6.249E+00	-2.132E+00	2.719E+01	2.321E+00	1.597E+01	2.961E+05
2.600E+01	-1.190E+02	-6.250E+00	-2.132E+00	2.719E+01	2.321E+00	1.597E+01	2.961E+05
2.700E+01	-1.190E+02	-6.250E+00	-2.132E+00	2.719E+01	2.321E+00	1.597E+01	2.961E+05
2.800E+01	-1.190E+02	-6.250E+00	-2.133E+00	2.719E+01	2.321E+00	1.598E+01	2.961E+05
2.900E+01	-1.190E+02	-6.250E+00	-2.133E+00	2.719E+01	2.321E+00	1.598E+01	2.961E+05
3.000E+01	-1.190E+02	-6.250E+00	-2.133E+00	2.719E+01	2.321E+00	1.598E+01	2.961E+05
3.100E+01	-1.190E+02	-6.251E+00	-2.133E+00	2.719E+01	2.322E+00	1.598E+01	2.961E+05
3.200E+01	-1.191E+02	-6.251E+00	-2.133E+00	2.719E+01	2.322E+00	1.598E+01	2.961E+05
3.300E+01	-1.191E+02	-6.251E+00	-2.133E+00	2.719E+01	2.322E+00	1.598E+01	2.961E+05
3.400E+01	-1.191E+02	-6.251E+00	-2.133E+00	2.719E+01	2.322E+00	1.598E+01	2.961E+05
3.500E+01	-1.191E+02	-6.251E+00	-2.133E+00	2.719E+01	2.322E+00	1.599E+01	2.961E+05
3.600E+01	-1.191E+02	-6.252E+00	-2.133E+00	2.719E+01	2.322E+00	1.599E+01	2.961E+05
3.700E+01	-1.191E+02	-6.252E+00	-2.133E+00	2.719E+01	2.322E+00	1.599E+01	2.961E+05
3.800E+01	-1.191E+02	-6.252E+00	-2.133E+00	2.719E+01	2.323E+00	1.599E+01	2.961E+05
3.900E+01	-1.191E+02	-6.252E+00	-2.133E+00	2.719E+01	2.323E+00	1.599E+01	2.961E+05
4.000E+01	-1.191E+02	-6.252E+00	-2.133E+00	2.719E+01	2.323E+00	1.599E+01	2.961E+05
4.100E+01	-1.191E+02	-6.252E+00	-2.133E+00	2.720E+01	2.323E+00	1.599E+01	2.961E+05

VARIABLE	P1	U1	V1	W1	KE	EP	H1
MINVAL=	-1.19E+02	-6.258E+00	-2.134E+00	2.718E+01	2.319E+00	1.596E+01	2.961E+05
MAXVAL=	-1.190E+02	-6.246E+00	-2.132E+00	2.721E+01	2.327E+00	1.603E+01	2.961E+05
CELLAV=	-1.191E+02	-6.252E+00	-2.133E+00	2.719E+01	2.323E+00	1.599E+01	2.961E+05

```

          .           WK E           V U P
          .           HH K E       V VU P
          .           W K E       V U P
          .           W K E       VUU P
          .           W K E       VV UP P
          .           W W K E      VU P
          .           W K E       V V P
          .           W K E       V UP
          .           W W K E      VUP P
          W   K E     W   E       V VP
          .           W   KE      V U
          .           WW   KE      VU
          0.10 +      WW   KE      V VP
          .           KE   W   KE    V P
          .W          K E   W   KE    VV
          .           WW   KE
          .   W   WW KE E   K EE
          0.00 HH.HH.HW...+K.KE.EE+.....+.....+.....+.....+.....+.....+.....+HH+HH.HH.HH.HH.HH.HH.HH.HH
          0   .1   .2   .3   .4   .5   .6   .7   .8   .9   1.0
THE ABSCISSA IS      ISHP. MIN= 2.00E+00 MAX= 7.00E+01

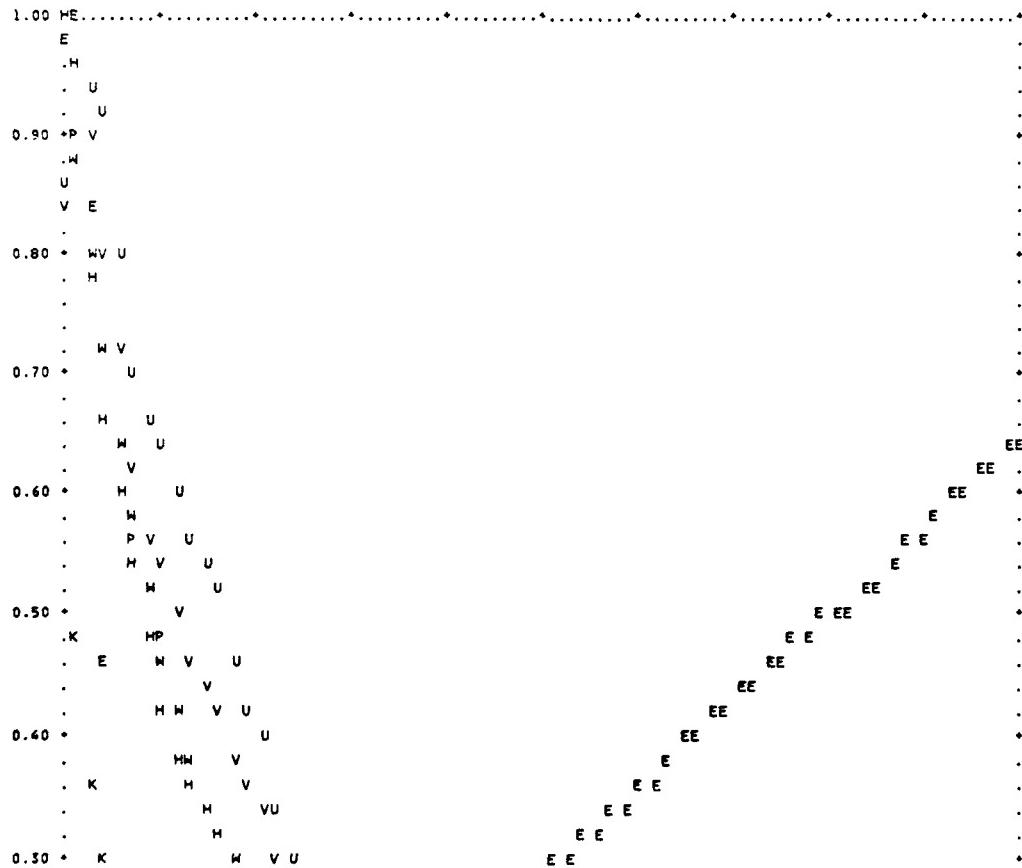
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RESIDUALS VS. SWEEP (/ITHYD IF PARAB)

TABULATION OF ABSCISSA AND ORDINATES...

ISWP	P1	U1	V1	W1	KE	EP	H1
2.000E+00	3.674E+06	6.441E+07	9.550E+07	3.368E+08	4.289E+11	5.504E+14	5.616E+11
3.000E+00	2.842E+06	8.351E+07	1.388E+08	2.466E+08	4.119E+11	5.504E+14	5.490E+11
4.000E+00	2.237E+06	7.373E+07	1.126E+08	1.944E+08	4.082E+11	5.502E+14	4.961E+11
5.000E+00	1.846E+06	7.122E+07	8.986E+07	1.545E+08	4.059E+11	5.499E+14	4.622E+11
6.000E+00	1.492E+06	5.803E+07	7.500E+07	1.258E+08	4.016E+11	5.498E+14	4.434E+11
7.000E+00	1.261E+06	4.916E+07	5.918E+07	1.063E+08	3.986E+11	5.496E+14	4.300E+11
8.000E+00	1.132E+06	4.518E+07	5.319E+07	9.218E+07	3.976E+11	5.495E+14	4.142E+11
9.000E+00	1.009E+06	4.317E+07	4.905E+07	8.009E+07	3.972E+11	5.495E+14	4.031E+11
1.000E+01	8.847E+05	4.010E+07	4.538E+07	7.009E+07	3.972E+11	5.495E+14	3.917E+11
1.100E+01	7.899E+05	3.773E+07	4.216E+07	6.261E+07	3.969E+11	5.495E+14	3.876E+11
1.200E+01	7.278E+05	3.686E+07	3.992E+07	5.697E+07	3.968E+11	5.495E+14	3.840E+11
1.300E+01	6.708E+05	3.555E+07	3.800E+07	5.375E+07	3.971E+11	5.495E+14	3.769E+11
1.400E+01	6.022E+05	3.143E+07	3.514E+07	5.052E+07	3.971E+11	5.496E+14	3.661E+11
1.500E+01	5.746E+05	2.927E+07	3.316E+07	4.784E+07	3.967E+11	5.496E+14	3.682E+11
1.600E+01	5.722E+05	2.852E+07	3.153E+07	4.444E+07	3.969E+11	5.496E+14	3.649E+11
1.700E+01	5.356E+05	2.565E+07	2.921E+07	4.141E+07	3.971E+11	5.496E+14	3.570E+11
1.800E+01	4.889E+05	2.334E+07	2.696E+07	3.894E+07	3.970E+11	5.496E+14	3.543E+11
1.900E+01	4.647E+05	2.243E+07	2.498E+07	3.554E+07	3.970E+11	5.496E+14	3.559E+11
2.000E+01	4.457E+05	2.151E+07	2.332E+07	3.190E+07	3.972E+11	5.496E+14	3.515E+11
2.100E+01	4.315E+05	1.980E+07	2.187E+07	2.990E+07	3.975E+11	5.496E+14	3.484E+11
2.200E+01	4.124E+05	1.841E+07	2.100E+07	2.783E+07	3.975E+11	5.496E+14	3.478E+11
2.300E+01	4.168E+05	1.877E+07	2.067E+07	2.668E+07	3.978E+11	5.496E+14	3.506E+11
2.400E+01	4.041E+05	1.807E+07	1.990E+07	2.531E+07	3.981E+11	5.496E+14	3.443E+11
2.500E+01	4.009E+05	1.612E+07	1.868E+07	2.469E+07	3.982E+11	5.496E+14	3.425E+11
2.600E+01	3.892E+05	1.562E+07	1.814E+07	2.440E+07	3.984E+11	5.496E+14	3.408E+11
2.700E+01	3.584E+05	1.480E+07	1.755E+07	2.365E+07	3.985E+11	5.497E+14	3.369E+11
2.800E+01	3.583E+05	1.505E+07	1.739E+07	2.386E+07	3.986E+11	5.497E+14	3.372E+11
2.900E+01	3.549E+05	1.522E+07	1.710E+07	2.368E+07	3.988E+11	5.497E+14	3.361E+11
3.000E+01	3.511E+05	1.541E+07	1.682E+07	2.431E+07	3.989E+11	5.497E+14	3.358E+11
3.100E+01	3.442E+05	1.569E+07	1.658E+07	2.361E+07	3.990E+11	5.497E+14	3.354E+11
3.200E+01	3.359E+05	1.536E+07	1.612E+07	2.325E+07	3.991E+11	5.497E+14	3.307E+11
3.300E+01	3.379E+05	1.490E+07	1.615E+07	2.307E+07	3.992E+11	5.497E+14	3.332E+11
3.400E+01	3.365E+05	1.490E+07	1.619E+07	2.322E+07	3.993E+11	5.497E+14	3.324E+11
3.500E+01	3.272E+05	1.410E+07	1.566E+07	2.277E+07	3.994E+11	5.497E+14	3.272E+11
3.600E+01	3.102E+05	1.372E+07	1.542E+07	2.249E+07	3.993E+11	5.498E+14	3.251E+11
3.700E+01	3.230E+05	1.425E+07	1.638E+07	2.202E+07	3.993E+11	5.498E+14	3.300E+11
3.800E+01	3.267E+05	1.507E+07	1.674E+07	2.286E+07	3.997E+11	5.498E+14	3.303E+11
3.900E+01	3.262E+05	1.435E+07	1.605E+07	2.276E+07	3.999E+11	5.498E+14	3.245E+11
4.000E+01	3.103E+05	1.379E+07	1.580E+07	2.252E+07	3.997E+11	5.498E+14	3.230E+11
4.100E+01	3.375E+05	1.532E+07	1.708E+07	2.340E+07	3.997E+11	5.498E+14	3.298E+11
4.200E+01	3.527E+05	1.732E+07	1.785E+07	2.358E+07	4.002E+11	5.498E+14	3.322E+11

	P_1	U_1	V_1	W_1	K_E	E_P	H_1
MINVAL =	1.264E+01	1.643E+01	1.654E+01	1.693E+01	2.671E+01	3.394E+01	2.647E+01
MAXVAL =	1.512E+01	1.824E+01	1.875E+01	1.963E+01	2.678E+01	3.594E+01	2.705E+01



```

.   E      H   U          E
.   HP H   V          EE
.   P   U          EE E
.   H   H          E
.   H H U          E E
.   P   HH H   E
.   W   VU H EE
.   P   PV VE HH
.   W   P EV HH HH H
.   EE P VP HH KK KK H K
.   EEE W UV K KH KK KKH H HV U UP U HH U UW WU H
.   K   EE EE W K KK KU U HH UH V PU H UH H HH HH W HH HH W
.   E   E KK KW U V VP UU V V HP H HV W HH MM PVH H V MM PH V P
.   KK KE EK K K KKK KK HH HH HH VH V U PV VW WV HH K H V HH VP HH HH V VV HP HH HH
0.00 +.....E.EK.K...K+K.....+.....W..HHH..HH..W...W.....+.....H+.P.VV...H...H....+
0       .1     .2     .3     .4     .5     .6     .7     .8     .9     1.0
THE ABSCISSA IS ISWP. MIN= 2.00E+00 MAX= 7.00E+01
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DATA FOR RE-STARTS AND PLOTTING SAVED ON DF09
RUN NO. 1 ENDED AT ISHEEP= 70 AND ISTEP= 1

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*****  

SATLIT RUN NUMBER = 1  

MACHINE-CLOCK TIME OF RUN = 0 SECONDS.  

TIME/(VARIABLES*CELLS*TSTEPS*SWEEPS*ITS) = 0.000E+00  

*****  

NORMAL STOP REACHED IN PROGRAM
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